GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:

December 27, 2005, 11:36:08; Search time 19.1667 Seconds (without alignments) 25.100 Million cell updates/sec

US-09-473-619D-1 27

1 GDEVD 5 Title: Perfect score: Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

PIR 80:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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1 GDEVD 5 1 GDEVD : ò 요

RESULT 2 B43714

hydroxymethylglutaryl-CoA reductase (BC 1.1.1.88) - Pseudomonas sp. (fragment) C;Species: Pseudomonas sp. C;Date: 03-Mar-1993 #sequence_revision 03-Mar-1993 #text_change 26-May-2000 C;Accession: B43714

N. Raderson, D.H.; Rodwell, V.W.

J. Bacteriol. 171, 6468-6472, 1989

A. Fittle: Nucleotide sequence and expression in Bacherichia coli of the 3-hydroxy-3-methy. A; Reference number: A43714; MUID:90078086; PMID:2687236

A, Reference number: A43714

A, Status: Preliminary

A, Molecule type: DNA

A, Residues: 1-44 < AND>
A, Cross-references: UNIPARC:UPI00000BD792; GB:M31807; NID:g151370; PIDN:AAA25894.1; PID:q C; Superfamily: Methanococcus jannaschii hydroxymethylglutaryl-CoA reductase (NADPH)
C; Keywords: coenzyme A; oxidoreductase

Gaps ö Query Match 100.0%; Score 27; DB 2; Length 44; Best Local Similarity 100.0%; Pred, No. 29; Matches 5; Conservative 0; Mismatches 0; Indels

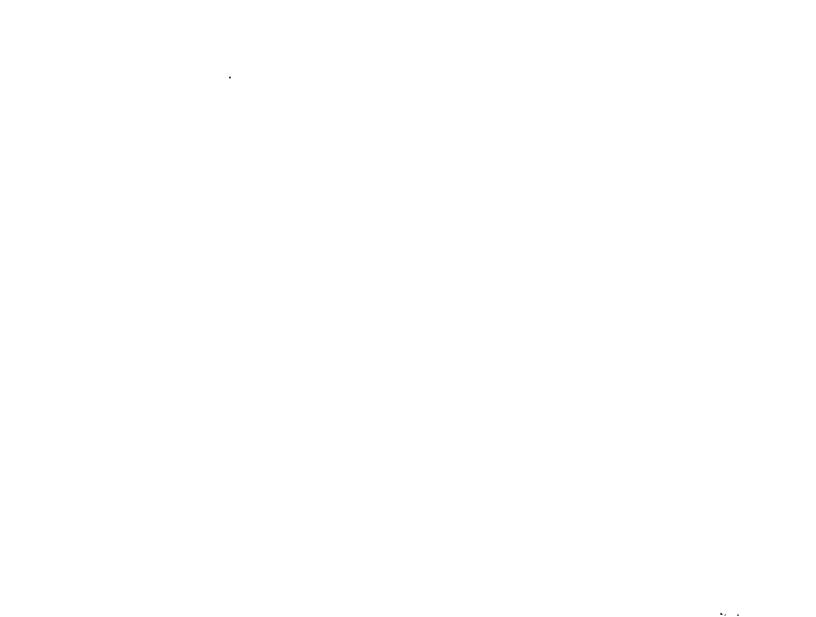
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Gaps

Page 3



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infiguration relates to novel protein modification and maintenance modificates (PMMM) and polynuclectides which identify and encode PMMM. The infiguration may be useful for the development of compositions with a contraction and arteriosoletric, anticonvulsant, nookropic, maintenance, antianteriosoletric, anticonvulsant, nookropic, antiallergic, antianteropic, anti
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707 Blake JJ, Lu Y, Arvizu
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AAQ79971 encodes AAR66771 human interleukin-1 beta converting enzyme ced 3 homolog Ich-1(L), increasing Ich-1(L)s enzymatic activity can promote the programmed cell death of cancer cells (pref. those overexpressing the bcl-2 oncogene), this can be used as the basis of a new cancer treatment. Alternatively by reducing Ich-1(L)s enzymatic activity programmed cell death can be inhibited, this may be useful in the development of new cell lines which remain viable in culture for extended or indefinite periods, independant of growth factors. (Updated on 25-MAR-2003 to correct PN
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                                                                                                                                                                                                                                       or preventing programmed cell death in vertebrate cells - by inhibiting the activity of interleukin-1 beta converting enzyme.
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interleukin-1 beta converting enzyme; gene cherapy.
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Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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452	55	22	165	183	187	212	212	267	267	267	269	331	423	450	625	2965	2969	2969	2969
82.9	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
9. 6. 4. 6.	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
25	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

Immunogen; apoptosis; screen; inhibitor; stimulator; antibody; PARP; poly-ADP-ribose polymerase; antibody. Peptide useful for diagnosing diseases that involve apoptosis. Siman R, Bozyczkocoyne D, Meyer SL, Bhat RV; AAW51893 standard; peptide; 7 AA. 96US-0030961P. 97US-00967625. 97WO-US020214. 21-SEP-1998 (first entry) (CEPH-) CEPHALON INC. WPI; 1998-298113/26. 15-NOV-1996; 12-NOV-1997; WO9821590-A1. 13-NOV-1997; 22-MAY-1998. AAW51893; Mammalia. AAW51893

Peptide (g) containing epitope (g) characteristic of peptide (g) formed during apoptosis - useful for diagnosing diseases that involve apoptosis and to screen for inhibitors or stimulators of apoptosis.

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Claim 1; Page 14; 40pp; English.

The invention relates to peptides that contain the sequences AAW51892-3. Also claimed are: (1) antibodies that bind specifically to an epicope on a peptide produced by apoptotic cells; (2) a method for identifying inhibitors or stimulators of apoptosis by measuring the effect of a test compound on amount of antibody bound to cell or tissue, and (3) kits for detecting peptides produced by apoptotic cells. Antibodies are used in immunoassays to detect and quantify apoptosis, particularly for diagnosis of apoptosis-associated conditions, e.g. chronic neurodegeneration, cancer, sepsis, trauma to head or spine, hypoxia, anoxia, ischaemia, lesions and exposure to toxins, or susceptibility to such a condition

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Gaps

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Length 103; 0; Indels

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Score 37; DB E Pred. No. 67; 2; Mismatches

90.2%;

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stress condition or for modifying seed oil or protein yield and/or content. This is the amino acid sequence of a plant full length insert polypeptide that can be used in the recombinant DNA construct of the
                                                                                                                                                                                                              5; Conservative
                                                                                                                                                                                                                                                        1 CKGDEVD 7
                                                                                                                                                                                    Best Local Similarity
Matches 5; Conser
                                                                                                                 Sequence 103 AA;
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New recombinant DNA construct, useful for improving plant tolerance to cold, heat, drought, herbicides, extreme osmotic conditions, pathogens or pests, for conferring increased resistance to plant disease, or for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention describes a recombinant DNA construct comprising a polynucleotide consisting of a sequence encoding an amino acid sequence available in electronic form from the US patent office at ftp.seqdata.uspto.gov/sequence.html?DocID:2004034888. The polynucleotide of the invention are also useful in physical arrays of molecules and as plant breeding markers. The recombinant DNA construct is useful for improving plant tolerance to cold, heat, drought, herbicides, extreme osmotic conditions, pathogens or pests, for manipulating growth rate in plant cells by modification of the cell cycle pathway, for conferring increased resistance to plant disease, for producing galactomannan, lignin or plant growth regulators, for increasing the rate of homologous recombination in plants, for improving yield by modification of photosynthesis or carbohydrate, nitrogen or phosphorus use and/or uptake or by providing improved plant growth and development under at least one
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     plant protectant; plant growth regulant; gene therapy; plant; recombinant DNA construct; physical array; plant breeding marker; cold tolerance; heat tolerance; drought tolerance; herbicide tolerance; extreme osmotic condition; pathogen tolerance; pest tolerance; growth rate; cell cycle pathway; disease resistance; galactomannan production; lignin production; plant growth regulator; yield; plant growth; plant development; seed oil; protein yield;
                                                                                                 Gaps
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                                               100.0%; Score 41; DB 2; Length 7; 100.0%; Pred. No. 2e+06; tive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                          ADY12242 standard; protein; 103 AA.
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05-NOV-2001; 2001US-00985678.
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                                                                                              Conservative
                          Query Match
Best Local Similarity
7; Conserv?
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TABASKA J E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-180133/17.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LIU J.
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    Sequence 7 AA;
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(SCRE/)
(TABA/)
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ADY122
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                                                                                                                                                                                                                                                                                                                                                                                                                     Coffee; theobromine synthase; enzyme; 7-methylxanthine; caffeine; transgenic coffee plant; caffeineless coffee; MTL1; theobromine synthase-related protein.
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85.7%; Pred. No. 3.7e+02;
tive 0; Mismatches 1;
                                                                                                                                                                AA014833 standard; protein; 385 AA.
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                                                                                                                                                                                                                                                                                                 (first entry)
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CRGDEID 72
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les 6; Conserv
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ABM95108 standard; protein; 92
                                                                                                                                             07-OCT-2003; 2003WO-FI000735.
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                                                                                                                                                                                       DUDICH E I.
SEMENKOVA L N.
DUDICH I V.
TATULOV E B.
ZUBOV D L.
                                                                                                                                                                                                                                               KORPELA T K.
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Best Local Similarity
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                                                                                                                       22-APR-2004.
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Korpela TK;
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                                                                                                                                                                                                             (DUDI/)
(TATU/)
(ZUBO/)
(KORP/)
                                                                                                                                                                                        (DUDI/)
(SEME/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention comprises the amino acid and coding sequence of the Coffea arabica (coffee) theobromine synthase enzyme. Theobromine synthase functions to catalyse the biosynthesis of theobromine from 7-methylaxanthine. Caffeine is synthasised through N-methylation of the theobromine. The theobromine synthase gene is useful for preparing transformed coffee plants which have decreased expression of theobromine synthase - such plants can be used to produce affeineless coffee. The theobromine synthase gene can also be used to produce transformed plants which have enhanced expression of theobromine. The present amino acid sequence represents a coffea arabica theobromine synthase-related protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      apoptotic cell death; apoptotically active site; human alpha-fetoprotein; human serum albumin; immunosuppressive; virucide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                      New theobromine synthase polypeptide and encoding gene, useful for producing caffeineless coffee from transgenic plants having reduced expression of polypeptide.
                                                                                                                                Coffee; theobromine synthase; enzyme; 7-methylxanthine; caffeine; transgenic coffee plant; caffeineless coffee; MTL2; theobromine synthase-related protein.
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85.7%; Pred. No. 3.7e+02;
ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human caspase-2 peptide related to apoptosis modulation.
                                                                                                            Coffee theobromine synthase-related protein (MTL2)
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                                           AAO14834 standard; protein; 385 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                     3xample; Page 9-10; 19pp; English.
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                                                                                                                                                                                                                                                                                                                 Sano H, Kusano T, Koizumi N;
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                                                                                       11-JUL-2002 (first entry)
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Best Local Similarity
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                                                                                                                                                                               Coffea arabica
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                                                                 AA014834;
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23-JUL-2002; 2002US-0398143P.
09-MG-2002; 2002US-0402458P.
12-AUG-2002; 2002US-0403289P.
27-AUG-2002; 2002US-0409354P.
06-SEP-2002; 2002US-0409354P.
23-JUL-2003; 2003WO-US023249
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                                                                                                                                                         (INCY-) INCYTE CORP.
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a substantially purified nucleic acid molecule encoding a nitrite reductase of SEQ ID NO. 11926. Further disclosed is a recombinant DNA construct for expression of a nitrite reductase gene in a plant cell, and a plant cell comprising the recombinant DNA construct. The nucleic acid is useful for determining gene expression, identifying mutations in a gene of interest, and for constructing mutations in a gene of interest. Sequences given in records for SEQ 1108 9692-16825 represent a group of 7134 Mxycoccus xanthus proteins and peptides. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein modification and maintenance molecule; PMMM; cytostatic; antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; vasotropic; antiallergic; antimicrobial; antiinflammatory; endocrine-Gen; thyromimetic; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; pilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AlDS; allergy; developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
                                                                                                                                                                                                                                                                                                                                                           New substantially purified Myxococcus xanthus nucleic acid molecule encoding a nitrite reductase, useful for determining gene expression, identifying mutations in a gene of interest, and for constructing mutations in a gene of interest.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
Transgenic plant; DNA replication; gene regulation; gene expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 92;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Match 82.9%; Score 34; DB 9; Length 92; Local Similarity 71.4%; Pred. No. 2.1e+02; les 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                              Wiegand RC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human PMMM protein amino acid sequence SeqID41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; SEQ ID NO 14307; 25pp; English.
                                                                                                                                                                                                                                                                              Slater SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADJ71981 standard; protein; 379 AA
                                                                                                                                                                                                                                      (MONS ) MONSANTO TECHNOLOGY LLC
                                                                                                                                                            10-JUL-2001; 2001US-00902540.
                                                                                                                                                                                                 10-JUL-2000; 2000US-0217883P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                              Goldman BS, Hinkle GJ,
                                                                                                                                                                                                                                                                                                                     WPI; 2005-028716/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CKGDDAD 74
                                         Myxococcus xanthus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CKGDEVD 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004009797-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 92 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                               US6833447-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-MAY-2004
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                                                                                                                    21-DEC-2004
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RESULT 7 ADJ71981

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This invention relates to novel protein modification and maintenance molecules (PMMM) and polynucleotides which identify and encode PMMM. The invention may be useful for the development of compositions with a cytostatic, antiarteriosclerotic, anticonvulsant, nootropic, neuroprotective, cerebroprotective, vasotropic, anti-HIV, antiallergic, antimicrobial, antiinflammancory, endocrine-den or thyronimetic activity. The polypeptides and polynucleotides are useful in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of PMMM, such as cell proliferative (for example cancer, atherosclerosis), neurological (for example epilepsy, Huntington's disease, stroke), immune/inflammatory (for example AIDS, allergies) and developmental (for example Hypothyroidism, Cushing's syndrome) disorders, or infections. These are also useful in assessing the effects of exagenous compounds on the expression of nucleic acid and mann acid sequences of PMMM. The present sequence is that of a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                          New human protein modification and maintenance molecules (PWMM), useful for diagnosing, treating and preventing diseases or conditions associated with the aberrant PMMM expression e.g. cancer, AIDS, epilepsy, or
Elliott VS, Swarnakar A, Griffin JA, Lee EA, Sprague WW;
Hafalia AJA, Lee SY, Kable AE, Ison CH, Khare R, Chawla NK;
Marquis JP, Jiang X, Jackson AA, Becha SD, Emerling BM, Jin P;
Wilson AD, Richardson TW, Yang J, Baughn MR, Gandhi AR, Nguyen DB;
Ramkumar J, Kallick DA, Rearney L, Lu DAM, Gietzen KJ, Tribouley CM;
Lal PG, Blake JJ, Lu Y, Arvizu CS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human interleukin-1 beta converitng enzyme ced 3 homolog; Ich-1(L); oncogene bcl-2; programmed cell death; cancer treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human interleukin-1 beta convering enzyme ced 3 homolog Ich-1(L).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; SEQ ID NO 41; 387pp; English.
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Active-site
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3 homolog Ich-1(L), increasing Ich-1(L)s enzymatic activity can promote the programmed cell death of cancer cells (pref. those overexpressing the bcl-2 oncogene), this can be used as the basis of a new cancer treatment. Alternatively by reducing Ich-1(L)s enzymatic activity programmed cell death can be inhibited, this may be useful in the development of new cell lines which remain viable in culture for extended or indefinite periods, independant of growth factors. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                    AAQ79971 encodes AAR66771 human interleukin-1 beta converting enzyme ced
                                                                                                                                                                                                    or preventing programmed cell death in vertebrate cells - by inhibiting the activity of interleukin-1 beta converting enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ich-1L; human ICE-ced-3 homologue; programmed cell death; apoptosis; interleukin-1 beta converting enzyme; gene therapy.
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                                                                                                                                                                                                                                                                                                                                                                                                                         Length 435;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
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Pred. No. 9.5e+02;
1; Mismatches 1;
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/label= QACRG_active_domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR98462 standard; protein; 435 AA.
                                                                                                                                                                                                                                           Example 5; Fig 12A; 116pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                       82.9%;
Best Local Similarity 71.4%;
Matches 5; Conservative 1
                                                              94WO-US006630
                                                                                     93US-00080850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human Ice-ced-3 homologue-1L
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                                                                                                               (GEHO ) GEN HOSPITAL CORP
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                                                                                                                                                               WPI; 1995-051742/07.
N-PSDB; AAQ79971.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 CKGDEVD 7
                                                                                                                                         Yuan J, Miura M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Yuan J, Miura M;
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 435 AA;
                                                               10-JUN-1994;
                                                                                       24-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-JAN-1996;
             WO9500160-A1
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                                      05-JAN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JUL-1996
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A novel human cell death gene, designated Ich-1 (ICE-ced-3 homologue-1), was identified as a new member of the ced-3/ICE family. Ich-1 is alternatively spliced into 2 different forms. Ich-1 cDNA (AAT31552) encodes a 435-amino acid protein (AAR98462) that is homologous to the P20 and P10 subunits of human interleukin-1 beta converting enzyme (ICE). Ich-15 cDNA (AAT31553) encodes a 312-amino acid protein (AAR98463) that is a runncated version of Ich-1L that terminates 21 residues after the QACRG active domain of Ich-1L. Overexpression of ICh-1L induces Rat-1 fibroblast cells to die in culture, but overexpression of Ich-1S suppresses Rat-1 cell death. Ich-1L and Ich-1S are useful in methods of controlling programmed cell death of vertebrate cells
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human interleukin-1-beta converting enzyme like apoptosis protease-2 (ICE -LAP-2) (AAR90703) is structurally related interleukin-1-beta converting enzyme, which is responsible for apoptosis. Recombinant ICE-LAP-2 is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Interleukin-1 beta converting enzyme like apoptosis protease-1 and -2 -controls programmed cell death, used in treatment of immunosuppression related disorders, e.g. AIDS and Alzheimer's disease.
                                               Preventing or promoting programmed cell death in vertebrate cells -comprises inhibiting or increasing the activity of interleukin-1-beta converting enzyme, or altering expression of other related genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Interleukin-1-beta converting enzyme like apoptosis protease-2; ICE-LAP-2; cell death; immunosuppression; AIDS; Alzheimer disease; Parkinson disease; septic shock; rheumatoid arthritis; head injury; antitumour; antiviral.
                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interleukin-1-beta converting enzyme like apoptosis protease-2
                                                                                                                                                                                                                                                                                                                                                                                                   82.9%; Score 34; DB 2; Length 435; 71.4%; Pred. No. 9.5e+02; ive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kirkness EF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hudson PL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR90703 standard; protein; 435 AA
                                                                                                                       Claim 19; Fig 10A; 127pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Fig 2A-C; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Craig AR, Hastings GA,
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                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 71.1",
Local Similarity 71.1",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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WPI; 1996-333763/33.
N-PSDB; AAT31552.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 CKGDEVD 7
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                                                                                                                                                                                                                                                                                                                                                                    Sequence 435 AA;
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RESULT 12
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can be prevented by a new method using IL-I receptor antagonist (IL-IRa).

IL-Ra is also used in a method for preventing programmed cell death by

blocking the binding of interleukin-1 beta (IL-1 beta ) to its receptor.

Cher methods for modulating programmed cell death are provided in the specification like a method of modulating apoptosis by activating the IL-

CC of altering levels of hypoxia-induced cell death by blocking IL-1

CC altering levels of hypoxia-induced cell death by blocking IL-1

CC ransformed cells by stimulating apoptosis with IL-1 beta or tumour

CC cell death by transfecting cells with the CrmA gene (of cowpox), and a

CC method for modulating apoptosis by downregulating the IL-1 receptor. IL-

CC method for modulating apoptosis by downregulating the IL-1 receptor. IL-

CC method for modulating apoptosis by downregulating the IL-1 receptor. IL-

CC method for modulating apoptosis by downregulating the IL-1 receptor. IL-

CC method for modulating apoptosis that through a pathway independent

CC method for modulating apoptosis such capturates with ICE and ICH-1L in

CC coll death by transfecting cells with the crmA gene (of cowpox),

CC method for modulating apoptosis by downregulating the IL-1 receptor. IL-

CC method for module coll death through a pathway independent

CC gene. Increasing/decreasing cells death can be used for the treatment of tumours (or other conditions where apoptosis is involved). Altering cell

CC gene. Increasing/decreasing cells death can be used for the treatment of tumours (or other conditions where apoptosis is involved).
                                                                                                                                                                                                                             ö
obtd. by expression of encoding cDNA (AATI5579) in procaryotic or eucaryotic host cells. It is used to treat diseases related to abnormally controlled programmed cell death, to control vertebrate development and tissue homeostamis, to overcome viral infections and to treat immunosuppression-releated disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Preventing apoptosis by blocking binding of interleukin-1beta to its receptor - useful for, e.g. treating tumours, and inhibiting oncogenic
                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cell death; ICH-11; interleukin-1 beta; apoptosis; treatment; IL-1; tumour; oncogenic transformation; IL-1 receptor antagonist; IL-1Ra;
                                                                                                                                                                                                                             ö
                                                                                                                                                                                    Length 435;
                                                                                                                                                                                                                          1; Indels
                                                                                                                                                                                 Score 34; DB 2; I
Pred. No. 9.5e+02;
                                                                                                                                                                                                                             1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                 AAW26274 standard; protein; 435 AA.
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                                                                                                                                                                                 82.9%;
71.4%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cell death protein ICH-11
                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Yuan J, Friedlander R;
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CRGDETD 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1997-470641/43.
N-PSDB; AAT90565.
                                                                                                                                                                                                    Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                        1 CKGDEVD 7
                                                                                                                                           Sequence 435 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        transformation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-MAR-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IL-1 beta.
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The invention relates to nucleic acid molecules encoding rev-caspases.

Rev-caspases are cysteine proteases that specifically cleave proteins after AB residues and is expressed as a zymogen, in which the small structure and is expressed as a zymogen, in which the small comprising a rev-caspase coding sequence is useful for the treatment of cancer, where the gene delivery vehicle is internalised by tumour cells. The gene delivery vehicle can also be used to treat autoimmune diseases. Cells transfected with a rev-caspase expressing vector can be used in identification of inhibitors or enhancers of caspase-mediated apoptosis. In vitro translated rev-caspase can be used to identify an inhibitor or enhancer of caspase processing activity. Caspase inhibitors are useful apoptosis in the heart following myocardial infarction. Sequences AAX81217 -AAX81226 represent human caspase genes encoding caspase 1-10
                                                                                                                                                                                                                                                    ö
               treat complications involving apoptosis in cases of hypoxia or ischaemia. The methods can also be used to screen for agents that modulate apoptosis. When IL-1 beta is produced endogenously (via ICE) it mediates cell death, but when added exogenously it may stimulate death if it binds to its receptor after application of apoptotic stimulus or inhibit it by binding to the receptor before application of the stimulus
death can also be used for inhibiting oncogenic transformation, and to treat complications involving apoptosis in cases of hypoxia or ischaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated nucleic acid molecule encoding a rev-caspase - used for screening and identifying inhibitors or enhancers for treating cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rev-caspase; cysteine protease; zymogen; caspase; cancer; gene therapy; autoimmune disease; caspase-mediated apoptosis; neurodegenerative; tumour cell; myocardial infarction; human.
                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                       Score 34; DB 2; Length 435; Pred. No. 9.5e+02; 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Amino acid sequence of caspase-2 (ICH-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure, Fig 12A-B; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                            AAY21716 standard; protein; 435 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene products (AAY21715-Y21724)
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                                                                                                                                                                                                           h 82.9%;
Similarity 71.4%;
5, Conservative
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB; AAX81218.
                                                                                                                                                                    Sequence 435 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAY21716;
                                                                                                                                                                                                                                                         Matches
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Human; caspase-2; Ichl; urokinase; proliferation; gene therapy; cysteine protease; apoptosis; caspase expression cassette; metastasis; tumour; cathepsin B.

Human caspase-2, alternative version

02-JUL-2001

AAE00599;

AAE00599 standard; protein; 435 AA

AAE00599

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The present sequence is a human Ice-ced 3 homologue (Ich-1) protein. The present sequence is a member of a family of genes involved in programmed cell death (apoptosis). The other family members include: the ced-3 gene of C. elegans (AAA72802), human interleukin-lbeta converting enzyme (ICE) (AAB14250), murine ICE1 (AAB14249), and murine ICE2 (AAB14252). Ich-1 (AAB14250), murine ICE1 (AAB14249), and murine ICE2 (AAB14252). Ich-1 cranscript encodes the present protein, Ich-1L. The other mRNA encodes a protein product of 312 amino acids, Ich-1S (AAB14258). Expression of Ich-1C in and Ich-1S have opposite effects on cell death. Overexpression of Ich-1C induces cell death, while overexpression of Ich-1C induced by serum deprivation. Therefore, Ich-1 may play an important role in both the positive and negative regulation of apoptosis. The Ich gene may be used in gene therapy in disorders characterised by cell death e.g. neural and muscular degenerative diseases, myocardial infarcation, stroke, virally induced cell death and aging
                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New human Ich-1L and Ich-1S proteins for negative and positive regulation of programmed cell death and for developing therapeutic methods for diseases and conditions characterized by cell death, e.g. myocardial
                                                                                                                                                                                                                                                                                                                                                             ced-3; virally induced cell death; apoptosis; gene therapy; neural; muscular degenerative disease; myocardial infarcation; stroke; aging; interleukin-lbeta converting enzyme; Ich-1L; human; ICE.
                                                      Gaps
                                                      ö
                  Length 435;
                                                  1; Indels
                82.9%; Score 34; DB 2; 1
71.4%; Pred. No. 9.5e+02;
                                                    1; Mismatches
                                                                                                                                                                                                                    AAB14257 standard; protein; 435 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Fig 12; 121pp; English.
                                                                                                                                                                                                                                                                                                                             Human Ich-1L protein sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94US-00258287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     93US-00080850
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Query Match
Best Local Similarity 71.4°
'hea 5; Conservative
                                                                                                                                                                                                                                                                                           09-FEB-2001 (first entry)
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                                                                                                                            CRGDETD 309
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                                                                                          1 CKGDEVD 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Yuan J, Miura M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; AAA72841.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JUN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-JUN-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JS6083735-A.
                                                                                                                                                                                                                                                        AAB14257;
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The present sequence is an alternative version of human Caspase-2 also known as Ich-1. Caspases are a family of cysteine proteases, that known as Ich-1. Caspases are a family of cysteine proteases, that participate in the initiation and execution of apoptosis. Caspases exist as pro-enzymes, activated by Cleavage into a large and small subunit, cocurring after specific aspartic acid residues within the pro-enzyme cocurring after specific aspartic acid residues within the pro-enzyme cocurring of genes encoding proteins or enzymes involved in proteolytic cleavage. The invention is based on the use of caspase expression cassettes comprising the coding sequence of a proteolytic cleavage site comprising a first and a second caspase subunits. A fusion polypeptide comprising two caspases subunit, separated by a cleavage site comprising a first and a second caspase subunit, separated by a cleavage site or associated in nature, is useful for cloning gene encoding containing fusion polypeptide is used to identify a mutant cell line deficient in an enzyme of interest and is also useful for diagnosis and suppression of proliferation or metastases of a tumour cell characterised by overexpression of a polypeptide (e.g. Cathepsin B or urchinase, selectively expressed in the tumour cells). DNA encoding fusion colypeptide is used therapy. Note: This sequence SEQ.ID.NO.4 is stated as being the same as that shown in page 83-85 (See AARBO0616) in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel fusion polypeptide comprising first and second caspase subunit separated by cleavage site not associated in nature with caspase subunit, useful for cloning gene encoding enzymes involved in proteolytic
                                                                                                                                                                                                                                                                                  /note= "Amino acid residues found in this sequence are absent in the sequence shown in page 83-85 (AAE00616)"
                                                                                                                                                                                                                                                                                                                                                              Misc-difference 305. .307
/note= "Encoded by GGAGGTGCTATTGGATCCCTTGGGCACCTCCTTCT GTTCATGAG"
                                                                                                                                                                                                                                                                                                                                                                                                                          316. .317
/label= Proteolytic_cleavage_site
                                                                                                                                                                                                                                                                                                                                          'note= "Encoded by ATA"
                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 4; Fig 4; 116pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-OCT-2000; 2000WO-US028941.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-AUG-2000; 2000US-0225564P.
                                                                                                                                                                                                                                                                  Misc-difference 1. .14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-290920/30.
                                                                                                                                                                                                                                                                                                                          Misc-difference 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cordell B, Li Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (SCIO-) SCIOS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; AAD03909
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                                                                                                                                                                                                                                                                                                                                                                                                                          Cleavage-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-OCT-1999;
                                                                                                                                                                                                              Homo sapiens
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Gaps ö

82.9%; Score 34; DB 3; Length 435; 71.4%; Pred. No. 9.5e+02; ive 1; Mismatches 1; Indels

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Matches

Query Match Best Local Similarity

303 CRGDETD 309

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the specification. However these sequences differ at several positions
                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Inhibiting programmed cell death (apoptosis) for treating tumors, involves providing an agent that blocks interleukin-1 beta receptor binding to a cell or cells, and inhibiting programmed cell death.
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                                                                                                                                         Length 435;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 435;
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                                                                                                                                         Query Match 82.9%; Score 34; DB 4; Length 435
Best Local Similarity 71.4%; Pred. No. 9.5e+02;
Matches 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Amino acid sequence of ICH-1L, a cell death protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search completed: December 27, 2005, 11:43:20 Job time : 158.75 secs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABB78321 standard; protein; 435 AA.
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N-PSDB; ABV72260.
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                                                                          Sequence 435 AA;
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

Run on:

December 27, 2005, 11:36:08; Search time 26.8333 Seconds (without alignments) 25.100 Million cell updates/sec

1 CKGDEVD 7

US-09-473-619D-2 41 Title: Perfect score: Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues Searched: 283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR 80:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ID Description	167436 interleukin-1-beta	AI2884 hypothetical prote		bromodomai			A53305 pentose-5-phosphat	F64425 valine-tRNA ligase		B96653 hypothetical prote	G72405 ATP-dependent DNA		S71750 import intermediat	S04200 NAD ADP-ribosyltra	A29725 NAD ADP-ribosyltra		D86363 hypothetical prote	S76781 glutamate synthase	I41313 hypothetical prote	I41310 hypothetical prote	conserved hyp		C82042 transcription regu	A37253 serum albumin - bu	A54039 major surface prot	chain C	Docott Allitamil - tDNA redin	STACAIIITT-LIKING
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Match	82	82	82	82	82	82	80	80	78	78	78	78	78	78	78	78	78	78	75	75	75	75	75	75	75	75	75	7.
Score	34	34	34	34	34	34	33	33	32	32	32	32	32	32	32	32	32	32	31	31	31	31	31	31	31	31	31	
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T49127 HVRKCS HVPKC0	S45453 S56653 T22137	A96710 F96665 B71931	148746 126585 148078	S28262 G85092 A54063
24-	1000	0000	9000	777
420438	469 541 548	596 661 773	782 784 953	960 1097 1213
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9 8 9	2 6 6 6 2 6 4 6	34 38 38	2, 4, 4, 2, 0, 1, 5,	4 4 4 6 4 3

ALIGNMENTS

167436	
interle	interleukin-1-beta-converting enzyme and ced-3 homolog-1, long isoform - rat (fragment)
C;Specie	C;Species: Rattus norvegicus (Norway rat)
C, Date:	C,Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
C;Access	C, Accession: 167436
R;Flaws,	R, Flaws, J.A.; Kugu, K.; Trbovich, A.M.; DeSanti, A.; Tilly, K.I.; Hirshfield, A.N.; Till.
Endocrir	Endocrinology 136, 5042-5053, 1995
A; Title:	A,Title: Interleukin-1-beta-converting enzyme-related proteases (IRPs) and mammalian cell
nulosa c	nulosa cells of the ovarian follicle.
A; Refere	A; Reference number: 153300; MUID: 96042508; PMID: 7588240
A: Access	A; Accession: 167436
A; Status	A;Status: preliminary; translated from GB/EMBL/DDBJ
A; Molect	A;Molecule type: mRNA
A:Residu	A;Residues: 1-182 <res></res>
A;Cross	A;Cross-references: UNIPROT:P55215; UNIPARC:UP100001707FB; EMBL:U34684; NID:g1004368; PII
Query	Query Match 82.9%; Score 34; DB 2; Length 182;
Best Loc Matches	Best Local Similarity 71.4%; Fred. NO. 29; Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
ò	1 CKGDEVD 7
q	123 CRGDETD 129

hypochetical protein Atu2508 [imported] - Agrobacterium tumefaciens (strain C58, Dupont) C; Species: Agrobacterium tumefaciens C; Date: 11-Jan-2002 #text_change 09-Jul-2004 C; Accession: A12884 Bequence_revision 11-Jan-2002 #text_change 09-Jul-2004 R; Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, L. erage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; McClelle; Karp, P.; Romero, P.; Zhang, S. Science 294, 2317-2323, 2001 A; Aththors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm, F.

ster, E.W. A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58. A;Reference number: AB2577; MUID:21608550; PMID:11743193

A, Accession: A12884 A, Status: preliminary A, Molecule type: DNA

A; Residues: 1-352 <KUR>
A; Cross-references: UNIPROT:QBUCH9; UNIPARC:UPI0000D1F1B; GB:AE008688; PIDN:AAL43495.1;
A; Experimental source: strain CS8 (Dupont)
C; Genetics:
A; Gene: Atu2508
A; Gene: Atu2508
C; Superfamily: inner membrane protein malk; ATP-binding cassette homology

Query Match

82.9%; Score 34; DB 2; Length 352;

Gaps

.. 0

1; Indels

Length 435;

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pentose-5-phosphate 3-epimerase - Rhodospirillum rubrum
C;Species: Rhodospirillum rubrum
C;Species: Rhodospirillum rubrum
C;Accession: A53305
R;Falcone, D.L.; Tabita, F.R.
J. Bacteriol. 175, 5066-5077, 1993
A;Title: Complementation analysis and regulation of CO-2 fixation gene expression in a ri
A;Reference number: A53305; MUID:93352412; PMID:8349547
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A;Residues: 1-219 <FAL>
A;Cross-references: UNIPARC:UPI000016FFB2; GB:S64484; NID:g404535; PIDN:AAB27778.1; PID:ç
C;Genetics:
A;Gene: cbbE
                                                                                                          A, Molecule type: mRNA
A, Residues: 1-435 «WAN>
A, Cross-references: UNIPROT: P42575; UNIPARC: UPI0000000909; GB: U13021; NID: 9537291; PID: 9f
C, Keywords: alternative splicing; apoptosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: preliminary
A;Molecule type: mRNNA
A;Residues: 1-452 <SAT>
A;Cross-references: UNIPROT:O55194; UNIPARC:UP100000E8A50; GB:U77933; NID:g2769705; PIDN:
A;Title: Ich-1, an Ice/ced-3-related gene, encodes both positive and negative regulators A;Reference number: A54821; MUID:94373811; PMID:8087842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      caspase-2 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Species: Rattus 0.701-1999 #sequence_revision 16-Jul-1999 #text_change 09-Jul-2004
C;Dacession: JC6507
R;Sato, N.; Milligan, C.E.; Uchiyama, Y.; Oppenheim, R.W.
Gene 202, 127-132, 1997
A;Title: Cloning and expression of the cDNA encoding rat caspase-2.
A;Teference number: JC6507; MUID:98087427; PMID:9427555
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80.5%; Score 33; DB 2; Length 219;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels
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                                                                                                                                                                                                                                 Query Match 82.9%; Score 34; DB Best Local Similarity 71.4%; Pred. No. 64; Matches 5; Conservative 1; Mismatches
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169 CRGDRVD 175
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                                                       A; Accession: A54821
A; Status: preliminary
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                                                                                                                                                                                                                                                    probable ABC transporter ATP-binding protein y408 AGR_C_4558 [imported] - Agrobacterium C;Species: Agrobacterium tumefaciens C;Species: Agrobacterium tumefaciens G;Species: Agrobacterium tumefaciens 30-Sep-2001 #sext_change 09-Jul-2004 C;Accession: F97660 R;Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; Scince 294, 2323-2328, 2001 A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum A;Reference number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: UNIPROT:Q9HGP4; UNIPARC:UPI000069D9D; EMBL:D89157; NID:g1749521; PI
A;Experimental source: strain PR745
F;64-121/Domain: bromodomain homology <BRO>
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A,Molecule type: DNA
A,Crosi-use: 1-352 «KUR»
A,Crosi-references: UNIPROT:Q8UCH9, UNIPARC:UPI00000D1F1B, GB:AE007869, PIDN:AAK88239.1,
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A;Map positIon: circular chromosome
C;Superfamily: inner membrane protein malK; ATP-binding cassette homology
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54;
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A;Molecule type: mRNA
A;Residues: 1-361 <YOS>
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       Pred. No. 53;
1; Mismatches
       83.3%;
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Matches 5; Conservative
       Best Local Similarity 83.3
Matches 5; Conservative
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CKGDEI 293
                                                                                  1 CKGDEV 6
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ATP-dependent DNA helicase - Thermotoga maritima (strain MSB8)
C;Species: Thermotoga maritima
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
E;Accession: G;72405
R;Nelson, K.E.; Clayton, R.A.; Gill, S.R.; Gwinn, M.L.; Dodson, R.J.; Haft, D.H.; Hickey, Garrett, M.M.; Stewart, A.M.; Cotton, M.D.; Pratt, M.S.; Phillips, C.A.; Richardson, D.:
R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso; Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; ansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000
A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.C.
C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziali, Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
Rizzo, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A;Tile: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A;Reference number: A86141; MUID:21016719; PMID:11130712
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A;Cross-references: UNIPROT:Q9LQ20; UNIPARC:UPI00000AB264; GB:AE005173; NID:g8493575; PII
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A;Title: Identification of multiple Caenorhabditis elegans caspases and their potential 1
A;Reference number: Z22587; MUID:99074291; PMID:9857046
A;Accession: T43638
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A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-780 cARN-
A;Cross-references: UNIPROT:09WY48; UNIPARC:UPI00000D3A6F; GB:AE001705; GB:AE000512; NID:
A;Experimental source: strain MSB8
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A,Title: Bvidence for lateral gene transfer between Archaea and Bacteria from genome seqn
A,Reference number: A72200; MUID:99287316; PMID:10360571
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Matches 5; Conservative
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Matches 5; Conservative
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A;Gene: F16P17.1
A;Map position: 1
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C;Species: Arabidopsis thaliana (mouse-ear cress)
R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; ansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000
A;Authors: Hunter, J.L.; Zin, X.; Liu, X.; Liu, X.S.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziali, Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A;Accession: H86559
A;Accession: H86559
                                                                                                                                   C;Accession: F64425
R;Bult, C.J.; White, O.; Olsen, G.J.; Zhou, L.; Fleischmann, R.D.; Sutton, G.G.; Blake, R; Riult, C.J.; Weich, C.I.; Overbeek, R.; Kirkness, B.F.; Weinstock, K.G.; Merrick, J.M.; Glodek, A.; Science 273, 1058-1073, 1996
A;Authors Kaine, B.P.; Borodovsky, M.; Klenk, H.P.; Fraser, C.M.; Smith, H.O.; Woese, C.A.; Arither Genome sequence of the methanogenic archaeon, Methanococcus jannaschii A;Reference number: A64300; MUID:96337999; PMID:8688087
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          valine-tRNA ligase (EC 6.1.1.9) - Methanococcus jannaschii
NiAlternate names: valyl-tRNA synthetase
C:Species: Methanococcus jannaschii
C:Species: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 09-Jul-2004
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C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
C;Accession: B96653
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C;Superfamily: valine-tRNA ligase
C;Keywords: aminoacyl-tRNA synthetase; ligase; protein biosynthesis
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C,Superfamily: Arabidopsis thaliana transcription factor DREB1B
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128 CAGDDVD 134
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Best Local Similarity
Matches 5; Conserv
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A; Molecule type: mRNA A; Residues: 1-826 <SHA>

C;Genetics: A;Gene: csp-2 A;Map position: 4 C;Keywords: cysteine proteinase; hydrolase

78.0%; 57.1%;

Best Local Similarity 57.1 Matches 4; Conservative

Query Match

|:|| :| 700 CRGDRID 706

RESULT 13

1 CKGDEVD 7

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A29725
MAD ADP-ribosyltransferase (EC 2.4.2.30), nuclear - human
NAD ADP-ribosyltransferase (EC 2.4.2.30), nuclear - human
NAD ADP-ribosyltransferase (EC 2.4.2.30), nuclear - human
NAD ADP-ribosyltransferase; poly (ADP-ribose) synthetase; poly (ADP)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Accession: A29725; A28498; A39976; A26901; I38096; B33321; A33321; A33321; A35635; A61559; S14(
R;Uchida, K.; Morita, T.; Sato, T.; Ogura, T.; Yamashita, R.; Noguchi, S.; Suzuki, H.; N)
Biochem: Biophys. Res. Commun. 149, 617-622, 1987
A;Title: Nucleotide sequence of a full-length cDNA for human fibroblast poly(ADP-ribose)
A;Reference number: A29725; MUID:88076933; PMID:3120710
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A; Residues: 1-69, 'Q', 71-1014 «UCH»
A; Residues: 1-69, 'Q', 71-1014 «UCH»
A; Residues: 1-69, 'Q', 71-1014 «UCH»
A; Rixtosaki, T.; Ushiro, H.; Mitsuuchi, Y.; Suzuki, S.; Matsuda, M.; Matsuda, Y.; Katunumë
J. Biol. Chem. 262, 15990-15997, 1987
A; Ritle: Primary structure of human poly (ADP-ribose) synthetase as deduced from cDNA seç
A; Reference number: A28498; MUID:88058958; PMID:2024474
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A; Residues: 1-16, 'E', 18-211, 'K', 213-236, 'R', 238-366, 'H', 369-1014 <KUR>
A; Cross-references: UNIPARC: UPI0000172437; GB:J03473
R; Cherney, B.W.; McBride, O.W.; Chen, D.; Alkhatib, H.; Bhatia, K.; Hensley, P.; Smulson, Proc. Natl. Acad. Sci. US.A. 84, 8370-8134, 1987
A; Title: CDNA sequence, protein structure, and chromosomal location of the human gene for A; Reference number: A39976; MUID: 88068596; PMID: 2891139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Map position: 1
C;Superfamily: poly(ADP-ribose) polymerase
C;Keywords: DNA binding; glycosyltransferase; NAD; nucleus; pentosyltransferase; zinc fir
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A; Residues: 1-49, 'D', 51-612, 'Q', 614-907, 'Y', 903-939, 'R', 941-979,'I', 981-1014 < CHE>
A; Cross-references: UNIPARC: UPI0000172438; GB: 03030
A; Note: the authors translated the codon ATA for residue 980 as Asn
R; Suzuki, H.; Uchida, K.; Shima, H.; Sato, T.; Okamoto, T.; Kimura, T.; Miwa, M.
Biochem. Biophya: Res. Commun. 146, 403-409, 1987.
A; Title: Molecular cloning of cDNA for human poly (ADP-ribose) polymerase and expression a, Reference number: A26901; MUID: 87298455; PMID: 3113420
                                                                                                                                                                   NAD ADP-ribosyltransferase (EC 2.4.2.30) - mouse
(SDecies: Mus musculus (house mouse)
(SDecies: Mus musculus (house mouse)
(SDecies: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 31-Dec-2004
(SACESSION: SO4200
(R;Huppi, K.; Bhatia, K.; Siwarski, D.; Klinman, D.; Cherney, B.; Smulson, M.
Nucleic Acids Res. 17, 3387-3401, 1989
(A;Title: Sequence and organization of the mouse poly (ADP-ribose) polymerase gene.
(A;Accession: SO4200
(A;Molecule type: DNA
(Cross-references: UNIPROT:P11103; UNIPARC:UPI000016CBD6; EMBL:X14206; NID:g49893; C;Genetics:
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A;Cross-references: UNIPARC:UPI0000172439; UNIPARC:UPI000017243A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1013;
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100.0%; Pred. No. 3.4e+02;
:ive 0; Mismatches 0;
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les 6; Conservative
190 KGDEVD 195
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A;Cross-references: UNIPROT:024293; UNIPARC:UPI0000A0B93; EMBL:Z68506; NID:g1495767; PI
A;Accession: S78406
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C;Keywords: chloroplast; inner membrane; transmembrane protein
F;1-37/Domain: transit peptide (chloroplast) #status predicted <TNP>
F;38-37/Domain: transit peptide (chloroplast) #status predicted <TNP>
F;38-33/Domain: transmembrane #status predicted <TMI>
F;74-93/Domain: transmembrane #status predicted <TMI>
F;101-120/Domain: transmembrane #status predicted <TMI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 import intermediate-associated 100K protein precursor - garden pea
N'Alternate names: chloroplast inner envelope protein; chloroplastic translocation compd
C'Species: Pisum sativum (garden pea)
C'Date: 29-Jan-1998 #sequence revision 06-Feb-1998 #text_change 09-Jul-2004
C'Accession: S71750; S78406; JC6116; PC6035
R'iluebeck, J.; S011, J.; Akita, M.; Nielsen, E.; Keegstra, K.
EMBO J. 15, 4230-4238, 1996
A;Title: Topology of IEP110, a component of the chloroplastic protein import machinery p
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A;Cross-references: UNIPARC:UPI00009E5BB; GB:U56419; NID:g1498314; PIDN:AAC49399.1; PID
A;Accession: PC6035
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A; Residues: 38-46;537-561;690-697 < LUE2>
A; Residues: 38-46;537-561;690-697 < LUE2>
A; Cross-reaces: UNIPARC: UP100001792E9; UNIPARC: UP100001792E9
A; Experimental source: cultivar golf
R; Kessler, F: Blobel, G.
Proc. Natl. Acad. Sci. US.A. 93, 7684-7689, 1996
A; Title: Interaction of the protein import and folding machineries in the chloroplast.
A; Reference number: UG6116; MUID: 96353878; PMID: 8755536
                                      A;Cross-references: UNIPROT:Q9Y055; UNIPARC:UPI000005606B; EMBL:AF088288; NID:g4063373; A;Accession: T43639
A;Statuus: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Residues: 564-826 <SH2>
                                                                                                                                                                                                              A; Cross-references: UNIPARC: UPI0000074F3D; EMBL: AF088289; NID: 94063375; PIDN: AAC98296.1; C; Genetics:
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A;Residues: 202-222;406-415,'L',417-425;458-474;706-717;810-822;854-874;961-993 <KES2>
A;Cross-references: UNIPARC:UPI00001792EA; UNIPARC:UPI00001792EB; UNIPARC:UPI00001792EC
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A;Description: this is an integral membrane protein of the protein import complex of
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pred. No. 2.8e+02; 
2; Mismatches 1; Indels
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A, Accession: S71750 A, Status: nucleic acid sequence not shown

A;Status: nucleic acid sequence not shown

A; Accession: JC6116

A; Genome: nuclear

Genetics:

Query Match Best Local Similarity Matches 6; Conserv

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A; Molecule type: mRNA
A; Mesidues: 12-26, Tr. 28-66;116-166 <GRA>
A; Mesidues: 12-26, Tr. 28-66;116-166 <GRA>
A; Cross-references: UNIPARC: UP100000172453; UNIPARC: UP10000172454
B; Schneider, R.; Auer, B.; Kuehne, C.; Herzog, H.; Klocker, H.; Burtscher, H.J.; Hirsch-Burr, J. Cell Biol. 44, 302-307, 1987
A; Title: Isolation of a cDNA clone for human NAD (+): protein ADP-ribosyltransferase.
A; Reference number: A61559; MUID: 88082900; PMID: 3121332
                                                                                                                                                                                                                    A;Status: translation not shown
A;Molecule type: DNA
A;Residues: 1-40 <RES>
A;Cross-teferences: UNIPARC:UPIO00016AES2; EMBL:X16674; NID:g510112; PIDN:CAA34663.1; PI
R;Auer, B.; Nagl, U.; Herzog, H.; Schneider, R.; Schweiger, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Status: nucleic acid sequence not shown, not compared with conceptual translation
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 16-66;96;121-159, 'D',161-167 < MUZ.
A;Residues: 16-66;96;121-159, 'D',161-167 < MUZ.
A;Cross-references: UNIPARC:UPI0000111ED5D; UNIPARC:UPI0000172451; UNIPARC:UPI0000172452
A;Note: these fragments represent a zinc finger-containing DNA-binding region
A;Note: these fragments represent a zinc finger-containing DNA-binding region
A;Cradwohl, G.; Menissier de Murcia, J.; Molinete, M.; Simonin, F.; Koken, M.; Hoeijmake
Proc. Natl. Acad. Sci. U.S.A. 87, 2990-2994, 1990
A;Title: The second zinc-finger domain of poly(ADP-ribose) polymerase determines specifi
A;Reference number: A35635; MUID:90222155; PMID:2109322
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./Cross-references: UNIPARC:UP10000172455; UNIPARC:UP1000172456
./Yokoyama, Y. Kawamoto, T.; Mitsuuchi, Y.; Kurosaki, T.; Toda, K.; Ushiro, H.; Terashi
ur. J. Blochem. 194, 521-526, 1990
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C,Comment: This protein can ADP-ribosylate itself as well as other proteins.
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A; Molecule type; DNA
A; Molecule type; DNA
A; Residuee: 38-49; 93-98; 132-137; 204-209; 237-242; 276-281; 335-340; 384-389; 431-436; 512-517;
A; Residuees: 38-49; 93-98; 132-137; 204-209; 237-242; 276-281; 335-340; 388-389; 431-436; 512-517;
A44; UNIPARC: UPI0000172445; UNIPARC: UPI0000172446; UNIPARC: UPI000172447; UNIPARC: UPI000
A; Note: the authors translated the codon GTG for residue 54 as Glu
A; Note: these fragments represent intron-exon boundaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Map position: 1941-1942
C;Superfamily: poly(ADP-ribose) polymerase
C;Keywords: DNA binding; DNA repair; glycosyltransferase; NAD; nucleus; pentosyltransfer
R;Ogura, T.; Nyunoya, H.; Takahashi-Masutani, M.; Miwa, M.; Sugimura, T.; Esumi, H. Biochem. Biophys. Res. Commun. 167, 701-710, 1990
A;Title: Characterization of a putative promoter region of the human poly(ADP-ribose) A;Reference number: 138096; MUID:90211250; PMID:2108670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Title: Human nuclear NAD(+) ADP-ribosyltransferase(polymerizing): organization of A;Reference number: A33321; MUID:90091744; PMID:2513174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A.Title: Human poly(ADP-ribose) polymerase gene. Cloning of the promoter region. A.Reference number: S14010; MUID:91099327; PMID:2125269
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100.0%; Pred. No. 3.4e+02;
tive 0; Mismatches 0; Indels
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Best Local Similarity 100.
Matches 6; Conservative
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KGDEVD 214
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Accession: B33321
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homo sapien tetraodon n homo sapien rattus norv entamoeba h fusobacteri rhodospiril

neurospora

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Cryptococcus neoformans var. neoformans B-3501A.
Bukaryota; Fungi; Basidiomycota; Hymenomycetes; Heterobasidiomycetes;
Tremellomycetidae; Tremellales; Tremellaceae; Filobasidiella.
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Eukaryota, Fungi, Basidiomycota, Hymenomycetes, Heterobasidiomycetes,
Tremellomycetidae, Tremellales, Tremellaceae, Filobasidiella.
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Fung E., Hyman R.W., Rowley D., Bruno D., Miranda M., Fukushima M., Wickes B.L., Fu J., Davis R.W.;

Wickes B.L., Fu J., Davis R.W.;

"Cryptococcus neoformans errotype D sequencing.";

Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.

-!- CAUTION: The sequence shown here is derived from an

EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=JEC21;
Loftus B., Amedeo P., Roncaglia P., Vamathevan J., Utterback T.,
Van Aken S., Fraser C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 38; DB 2; Length 248;
Pred. No. 37;
1; Mismatches 0; Indels
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BMBL; AARYO1000042; BAL19261.1; -; Genomic_DNA.
Hypotherical protein.
SEQUENCE 248 AA; 28162 MW; B2SC174C91D3A088 CRC64;
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Last annotation update)
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07KZL6_HUMAN
Q4RQC2_TETNG
Q9BUP7_HUMAN
O55194_RAT
Q8C9H7_MOUSE
Q8K241_MOUSE
Q95CN9_DICDI
YK82_SGHPO
Q55CN9_DICDI
YK82_SGHPO
Q55CN9_DICDI
Q7SCV9_NEUCR
G514Z4_ENTHI
Q7SCV9_NEUCR
G7SCV9_NEUCR
G7SCV9_NEUC
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OSKBSO_10-MAY-2005 (TrEMBLrel. 30, Li
10-MAY-2005 (TrEMBLrel. 30, Li
10-MAY-2005 (TrEMBLrel. 30, Li
Hypothetical protein.
ORFNames=CNI03770;
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Q55M34;
13.58P-2005 (TEMBLrel. 31,
13.58P-2005 (TEMBLrel. 31,
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Best Local Similarity 85.7%;
Matches 6; Conservative
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ORFNames=CNBH3600;
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                                                                                                                            ; Search time 170.333 Seconds (without alignments)
28.994 Million cell updates/sec
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QA104
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                    GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
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Q9HF81_CA.
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064VS2_BACFR
04NLB8_THEBA
040MP9_THEAN
080MP9_THEAN
080MP9_COPAR
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Q7MKS2_VIBVY
Q5EBW8_COFCA
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Maximum Match 100%
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Maximum DB seq
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Result No.

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Gaps

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STRAIN=Muguga; Gardner R., Shah T., de Villiers E.P., Carlton J.M., Gardner M.J., Bishop R., Shah T., Pain A., Berriman M., Wilson R.J.M., Hall N., Ren Q., Paulsen I.T., Pain A., Berriman M., Wilson R.J.W., Sato S., Ralph S.A., Mann D.J., Xiong Z., Shallom S.J., Weidman J., Oliang L., Lynn J., Meaver B., Shoaibi A., Wasawo D., Crabtree J., Wortman J.R., Haas B., Angluoli S.V., Creasy T.H., Lu C., Suh B., Silva J.C., Utterback T.R., Feldblyum T.V., Pertea M., Allen J., Silva J.C., Fraser C.M., White O.R., Fitzhugh H.A., Morzaria S., Venter J.C., Fraser C.M., Nene V., "Genome sequence of Theileria parva, a bovine pathogen that transforms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kuwahara T., Yamashita A., Hirakawa H., Nakayama H., Toh H., Okada N., Kuhara S., Hattori M., Hayashi T., Ohnishi Y.; "Genomic analysis of Bacteroides fragilis reveals extensive DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN-Auguga; Gardner R., Shah T., de Villiers E., Carlton J.M., Hall N., Gardner M., Bishop R., Pain A., Berriman M., Wilson R.J.M., Sato S., Ralph S.A., Mann D.J., Xiong Z., Shallom S.J., Weidman J., Jiang L., Ilynn J., Weaver B., Shoaibi A., Wasawo D., Crabtree J., Wortman J.R., Haas B., Angiuoli S., Creasy T.H., Iu C., Suh B., Silva J.C., Viterback T., White O., Fitzhugh H.A., Morzaria S., Venter J.C., Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Alveolata; Apicomplexa; Piroplasmida; Theileriidae;
                                                                                                                                                                                                                                                                           Bacteria, Bacteroidetes, Bacteroides (class); Bacteroidales,
Bacteroidaceae, Bacteroides.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inversions regulating cell surface adaptation.";
Proc. Natl. Acad. Sci. U.S.A. 101:14919-14924(2004).
EMBL; AP006841; BAD48626.1; -; Genomic_DNA.
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Last annotation update)
                                                                                        25-0cT-2004 (TrEMBLrel. 28, Created)
25-0cT-2004 (TrEMBLrel. 28, Last sequence update)
25-0cT-2004 (TrEMBLrel. 28, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  92.7%; Score 38; DB 2;
85.7%; Pred. No. 49;
iive 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PubMed=15466707; DOI=10.1073/pnas.0404172101;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT; 1070 AA
                           336 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Created)
                                                                                                                                                                                          Putative periplasmic protein.
OrderedLocusNames=BF1878;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31, 13-SEP-2005 (TrEMBLrel. 31,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Science 309:134-137(2005).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q4N1E8_THEPA PRELIMINARY;
                              Q64V52 BACFR PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hypothetical protein.
ORFNames=TP04 0796;
                                                                                                                                                                                                                                                              Bacteroides fragilis.
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                                                             Q64V52;
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                                                                                                                   PubMed=15553466; DOI=10.1126/science.1103773;

A Vamachevan J., Wiranda M., Anderson I.J., Fraser J.A., Allen J.E.,
A Doftus B.J., Fung E., Roncaglia P., Rowley D., Amedeo P., Bruno D.,
A Marathevan J., Miranda M., Anderson I.J., Fraser J.A., Allen J.E.,
Bosdet I.E., Brent M.R., Chiu R., Doering T.L., Donlin M.J.,
A Kwon-Chung K.J., Lengeler K.B., Mait R., Marra M.A.,
A Kwon-Chung K.J., Lengeler K.B., Mait R., Marra R.E.,
A Mathewson C.A., Mitchell T.G., Pertea M., Riggs F.R., Salzberg S.L.,
Schein J.E., Shvartsbeyn A., Shin H., Shumway M., Specht C.A.,
Sub B.B., Tenney A., Utterback T.R., Wickes B.L., Wortman J.R.,
Whye N.H., Kronstad J.W., Lodge J.K., Heitman J., Davis R.W.,
The genome of the basidiomycetous yeast and human pathogen
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Bacteria; Bacteroidetes; Bacteroidetes (class); Bacteroidales;
Bacteroidaceae; Bacteroides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 38; DB 2; Length 248; Pred. No. 37;
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Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
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EMBL, AE017349; AAW45282.1; -; Genomic_DNA.

InterPro; IPR006384; HAD SF IB hypl.

Pfam; PF06889; Put_Phosphatase; 1.

TIGRFAMs; TIGR01489; DKWTPPase-SF; 1.

Complete proceome; Hypothetical protein.

SEQUENCE 248 AA; 28162 MW; B25C174C91D3A088 CRC64;
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EMBL, CR626927; CAH07638.1, -; Genomic_DNA.
Complete protecome; Hypothetical protein.
SEQUENCE 336 AA; 37916 MW; 43351A58940F3F19 CRC64;
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Last annotation update)
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                                                                   NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QSLEIS BACFN PRELIMINARY;
QSLEIS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OrderedLocusNames=BF1940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6; Conservative
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Best Local Similarity
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RESULT 3

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Length 336;

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NCBI_TaxID=13443;
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-1- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
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                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Fungi, Basidiomycota; Ustilaginomycetes;
Ustilaginomycetidae; Ustilaginales; Ustilaginaceae; Ustilago.
                                                                                                         Length 1070;
                                                                                                                                          1; Indels
                                                           Hypothetical protein.
SEQUENCE 1070 AA; 117312 MW; F04666F536FBE05F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "The genome sequence of Ustilago maydis.";
Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
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13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
                                                                                                       90.2%; Score 37; DB 2; I
85.7%; Pred. No. 2.4e+02;
ative 0; Mismatches 1;
                               preliminary data.
EMBL; AAGK01000004; EAN32150.1; -; Genomic_DNA
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Q4PAPO;
                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                 Hypothetical protein.
ORFNames=UM02823.1;
                                                                                                                                                                                                      386 CKGDETD 392
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                                                                                                       Query Match
Best Local Similarity
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Matches
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NUCLECTIDE SEQUENCE.
MEDIINE=22415056; PubMed=12527364; DOI=10.1016/S0014-5793(02)03781-X;
MEDIINE=22415056; PubMed=12527364; DOI=10.1016/S0014-5793(02)03781-X;
Mizuno K., Okuda A., Kato M., Yoneyama N., Tanaka H., Ashihara H.,
Fujimura T.;
"Isolation of a new dual-functional caffeine synthase gene encoding an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NOUNCE TO SERVING TO SERVING THE SERVING THE SERVING TO STRAIN-ANKERS ISOLATE CLONE C9;
Pain A., Renauld H., Murphy L., Harris D.A., Quail M.A., Berriman M., Hall N., Barrell B.G.;
Hall N., Barrell B.G.;
"The chromosome 3 genome sequence of Theileria annulata.";
Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
EMBL; CR940353; CAI76804.1; -; Genomic_DNA.
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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; aster
lamiids; Gentianales; Rubiaceae; Ixoroideae; Coffeeae; Coffea
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
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Bukaryota, Alveolata, Apicomplexa, Piroplasmida, Theileriidae,
                                                                                                                                                                                                                                                                                                                  90.2%; Score 37; DB 2; Length 1104; 85.7%; Pred. No. 2.4e+02; ive 1; Mismatches 0; Indels
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                           preliminary data.

EMBL; AACP01000096; EAK83869.1; -; Genomic_DNA.

InterPro; IPR003959; AAA_ATPase_centr.

InterPro; IPR000862; RFC.

Pfam; PF00004; AAA; 1.

SMART; SM0382; BAA; 1.

ATP-binding; Hypothetical protein; Nucleotide-binding.

SEQUENCE 1104 AA; 121289 MW; 56A22E41A3C30C25 CRC64;
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SEQUENCE 1197 AA; 132105 MW; E613399C9F4B1856 CRC64;
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13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
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Q8HOFB;

O1-MAR-2003 (TrEMBLrel. 23, Creator)

O1-MAR-2003 (TrEMBLrel. 23, Lastor)

O1-JUN-2003 (TrEMBLrel. 24, Lastor)

Tentative caffeine synthase 4.
                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 85.7.
---a 6; Conservative
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Coffea arabica (Coffee)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hypothetical protein.
ORFNames=TA09935;
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982 CKGDKVD 988
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Caffeine synthase.
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                                                                                                                                                                                                                                                                                                                  Query Match
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061RM1 CAE
10 061RM
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AC 061RM
DT 25-0C
DT 25-0C
DB Hypot
GN Name=
OC Bukar
OC Rabab
OC RABABB
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WICLEOTIDE SEQUENCE:

WEDLINES-22415056; PubMed=12527364; DOI=10.1016/S0014-5793(02)03781-X;

Mizuno K., Okuda A., Kato M., Yoneyama N., Tanaka H., Ashihara H.,

Rujimura T.;

Fujimura T.;

Fujimura T.;

Fujimura T.;

Forthylian Caffeine synthase gene encoding an argorie for the conversion of 7-methylxanthine to caffeine from coffee (Coffea arabica L.)...;

FEBS Lett. 534.75-81(2003).

EMBI. AB054842; BAC43758.1; -; MRNA.
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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
lamiids; Gentianales; Rubiaceae; Ixoroideae; Coffeeae; Coffea
   7-methylxanthine to caffeine from coffee
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MEDLINE=21269383; PubMed=11108716; DOI=10.1074/jbc.M009480200;
                                                                                                                                                                                                                                                                                     Length 385;
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                             (Coffea arabica L.).";

PEBS Lett. 534:75-81(2003).

EMBI, ABO54493; BAC43759.13. -; mRNA.

HSSP; Q9SPV4; 1M6E.

HINTERPRO; IPRO05299; Methytranaf_6.

Pfam; PF03422; Methytranaf_7; 1.

SEQUENCE 385 AA; 43270 M™; 26E5858349DBODD6 CRC64;
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Pfam; PF03492; Methyltransf 7; 1.
SEQUENCE 385 AA; 43221 MW; 84942A3FB806F301 CRC64;
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Last annotation update)
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Last annotation update)
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85.7%; Pred. No. 1.4e+02;
iive 0; Mismatches 1;
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enzyme for the conversion of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QBH0F9_COFAR_PRELIMINARY;
Q8H0F9;
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Q9AVK1;
                                                                                                                                                                                                                                                                                                                                                      Conservative
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28 HOP9
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Coffea arabica (Coffee).

Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids;
Jamiids; Gentianales; Rubiaceae; Ixoroideae; Coffeeae; Coffea.
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MEDLINE=21269383; PubMed=11108716; DOI=10.1074/jbc.M009480200;
MEDLINE=21269383; PubMed=11108716; DOI=10.1074/jbc.M009480200;
Ogawa M., Herai Y., Kolzumi N., Kusano T., Sano H.;
Ogawa M., Herai Y., Kolzumi N., Kusano T., Sano H.;
and enzymathin methyltransferase of coffee plants. Gene isolation and enzymatic properties ";
J. Biol. Chem. 276:8213-8218 (2001).
J. Biol. Chem. 276:8213-213-1; -; mRNA.
HSSP; Q9SPV4; 1M6E.
Ogawa M., Herai Y., Koizumi N., Kusano T., Sano H.;
"7-Methylxanthine methyltransferase of coffee plants. Gene isolation and enzymatic properties.";
J. Biol. Chem. 276:8213-8218 (2001).
Bi BAD48792; BAB39214.1; -; mRNA.
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Rhabditidae; Peloderinae; Caenorhabditis.
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85.7%; Pred. No. 1.4e+02;
ive 0; Mismatches 1; Indels
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Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
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Pfam, PF03492; Methyltransf 7; 1.
SEQUENCE 385 AA; 43242 MW; 003A5837FF0AE300 CRC64;
                                                                                                                                                                               InterPro; IPR005299; Methytransf 6.
Pfam; PF03492; Methyltransf 7; 1.
SEQUENCE 385 AA; 43270 MW; 92103A20A001FB0E CRC64;
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85.7%; Pred. No. 1.4e+02;
iive 0; Mismatches 1;
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25-OCT-2004 (TrEMBLrel. 28, La
25-OCT-2004 (TrEMBLrel. 28, La
Hypothetical protein CBG06533.
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QGAVL9 COFAR PRELIMINARY;
Q9AVL9;
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QEIRMI;
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Vibrionaceae; Vibrio
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SEQUENCE 275 AA;
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Rhabditidae; Peloderinae; Caenorhabditis.
-!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is preliminary data.

EMBL; CAG020029; CAE62441.1; -; Genomic_DNA.
GO; GO:0016020; C:nembrane; IEA.
GO; GO:0016006; F:epidermal growth factor receptor activity; IEA.
InterPro; IPR000494; EGFR L.
Pfam; PF01030; Recep_L_domain; 3.
Hypothetical protein.
SEQUENCE 528 AA; 61142 MW; FEBCFE2098876A6D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      preliminary data.

EMBL; CARCO1000029; CAECS43.1; -; Genomic_DNA.

GO; GO:0016020; C:membrane; IEA.

GO; GO:0016020; C:membrane; IEA.

InterPro; IPR000494; EGFR L.

Fran; PF01030; R:ecep_L_domain; 2.

Hypothetical protein.

SEQUENCE S89 AA; 67033 NW; 62886BB3A7FC579 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The C.briggsae Sequencing Consortium, Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
-!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
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Veith B., Herzberg C., Steckel S., Feesche J., Maurer K.H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87.8%; Score 36; DB 2; Length 589; 71.4%; Pred. No. 2.1e+02; ive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                        Length 528
                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
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Q65LJ9 BACLD
Q65LJ9 BACLD
Q65LJ9 BACLD
Q65LJ9 BACLD
Q65LJ9 BACLD
S67LJ9 G2WZ0;
S5-OCT-2004 (TrEMBLrel. 28, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annocation update)
AddA (ATP-dependent deoxyribonuclease) (Subunit A).
Name=addA; OrderedLocusNames=BL01350, BL101157;
Bacillus licheniformis (strain DSM 13 / ATCC 14580).
Bacteria, Firmicutes; Bacillales; Bacillus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein CBG06535.
Name=CBG06535;
                                                                                                                                                                                                                                                                                                                                                     87.8%; Score 36; DB 2; 171.4%; Pred. No. 1.9e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                2; Mismatches
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Best Local Similarity 71.43,
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Q61RL9;
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Matches 5; Conservative
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189 COGDEID 195
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102 CQGDEID 108
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NUCLEOTIDE SEQUENCE
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AC 061RLD
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                                                                                                                                                                                                                           PubMed=15461803; DOI=10.1186/gb-2004-5-10-r77;
Rey M.W., Ramaiya P., Nelson B.A., Brody-Karpin S.D., Zaretsky E.J., Tang M., Lopez de Leon A., Xiang H., Gusti V., Clausen I.G., Olsen P.B., Rasmussen M.D., Andersen J.T., Joergensen P.L., Larsen T.S., Sorokin A., Bolotin A., Lapidus A., Galleron N., Ehrlich S.D., Berka R.M.;
"Complete genome sequence of the industrial bacterium Bacillus ilchemiformis and comparisons with closely related Bacillus gpecies."; Genome Biol. 5:RESEARCH077.1-RESEARCH077.12(2004).
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Ehrenreich P., Baeumer S., Henne A., Liesegang H., Merkl R.,
Ehrenreich A., Gottschalk G.;
"The complete genome sequence of Bacillus licheniformis DSM13,
organism with great industrial potential.";
J. Mol. Microbiol. Biotechnol. 7:204-211(2004).
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85.7%; Pred. No. 4.3e+02;
iive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; AE017333; AAU40065.1; -; Genomic DNA.
EMBL; CP000002; AAU22718.1; -; Genomic DNA.
GO; GO:0005524; F:ATP binding; IEA.
GO; GO:0004003; F:ATP-dependent DNA helicase activity; IEA.
GO; GO:0004003; F:DNA binding; IEA.
GO; GO:0006281; P:DNA repair; IEA.
InterPro; IPR000212; UvrD-helicase.
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01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Uncharacterized protein required for formate dehydrogenase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         85.4%; Score 35; DB 2; Length 275; 100.0%; Pred. No. 1.6e+02; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1230 AA; 141091 MW; 10DDC24F1AC42C2F CRC64;
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Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AE016805; AA010935.1; -; Genomic_DNA.
GO; GO:0009326; C:formate dehydrogenase complex; IEA.
GO; GO:00008613; F:formate dehydrogenase activity; IEA.
GO; GO:0006118; P:electron transport; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              275 AA; 30510 MW; 4C09A7F76FBBB25 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR000212; UvrD-helica
Pfam; PF00580; UvrD-helicase; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF02634; FdhD-NarQ; 1.
PIRSF; PIRSF015626; FdhD; 1.
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nes 6, Conservative
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168 CKGDEV 173

Search completed: December 27, 2005, 11:48:19 Job time : 173.333 secs

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Query Match
Best Local Similarity 85.7
Matches 6; Conservative
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; ORGANISM: Caffea arabica
US-09-971-020A-3
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Sequence 10, Appl
Sequence 53, Appli
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Sequence 31821, A
Sequence 8, Appli
Sequence 8, Appli
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                                                              December 27, 2005, 11:36:08; Search time 37.9167 Seconds (without alignments) 15.263 Million cell updates/sec
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1: /cgn2 6/ptodata/1/iaa/5 COMB.pep:*
2: /cgn2 6/ptodata/1/iaa/6 COMB.pep:*
3: /cgn2 6/ptodata/1/iaa/H COMB.pep:*
4: /cgn2 6/ptodata/1/iaa/PCTUS COMB.pep:*
5: /cgn2 6/ptodata/1/iaa/RE_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Gapop 10.0 , Gapext 0.5
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    Sequence 3, Application US/09971020A
    Sequence 3, Application US/09971020A
    Patent No. 6734342
    Sequence 3, Application US/09971020A
    Patent No. 6734342
    APPLICANT: Sano, Hiroshi
    APPLICANT: Sano, Hiroshi
    APPLICANT: Kusano, Tomonobu
    APPLICANT: Kusano, Tomonobu
    APPLICANT: Kusano, No. 67343420mu
    TITLE OF INVENTION: Theobromine Synthase Polypeptide
    TITLE OF INVENTION: Gene Encoding Said Polypeptide
    TITLE OF INVENTION: Gene Encoding Said Polypeptide
    FILE REFERENCE: 026350-068
    CURRENT APPLICATION NUMBER: US/09/971,020A
    CURRENT FILING DATE: 2000-10-06
    NUMBER OF SEQ ID NOS: 22
    SOFTWARE: FastSEQ for Windows Version 4.0
    SEQ ID NO 3
    LENGTH: 385
    THE CONTH: SASE
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; Sequence 5, Application US/09971020A
; Partent No. 6734342.
; GENERAL INFORMATION:
; APPLICANT: Sano, Hiroshi
; APPLICANT: Kusano, Tomonobu
; APPLICANT: Kusano, Tomonobu
; TITLE OF INVENTION: Theobromine Synthase Polypeptide of Coffee Plant and the
; TITLE OF INVENTION: Theobromine Synthase Polypeptide
; TITLE OF INVENTION: Theobromine Synthase Polypeptide
; CURRENT APPLICATION UNMBER: US/09/971,020A
; CURRENT PILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: JP 2000-307,149
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
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US-08-421-695A-8
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85.7%; Pred. No. 69;
iive 0; Mismatches
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US-09-989-903-58
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Sequence of 432628
GENERAL INFORMATION:
APPLICANT: Alnemil, Emad S.
APPLICANT: Pernandez-Alnemin, Teresa
APPLICANT: Pernandez-Alnemin, Teresa
TITLE OF INVENTION: CASPASE-14, AN APOTOTIC PROTEASE, NUCLEIC ACID ENCODING
TITLE OF INVENTION: CASPASE-14, AN APOTOTIC PROTEASE, NUCLEIC ACID ENCODING
TITLE OF INVENTION: CASPASE-14, AN APOTOTIC PROTEASE, NUCLEIC ACID ENCODING
TITLE OF INVENTION: CASPASE-14, AN APOTOTIC PROTEASE, NUCLEIC ACID ENCODING
TITLE OF INVENTION: CASPASE-1998-08-25
NURBER OF SEQ ID NOS: 65
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO S3
LENGTH: 56
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APPLICANT: Alnemri, Emad S.
APPLICANT: Alnemri, Emad S.
APPLICANT: Fernandez-Alnemri, Teresa
APPLICANT: Fernandez-Alnemri, Teresa
TITLE OF INVENTION: CASPASE-14, AN APOTOTIC PROTEASE, NUCLEIC ACID ENCODING
TITLE OF INVENTION: AND METHODS OF USE
FILE REFERENCE: 480140.434C1
CURRENT APPLICATION NUMBER: US/09/187,789
CURRENT FILING DATE: 1998-11-06
NUMBER OF SEQ ID NOS: 78
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                             Gaps
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                                                                                                  87.8%; Score 36; DB 2; Length 385; 85.7%; Pred. No. 69;
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Pred. No. 26;
1; Mismatches 1; Indels
                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 82.9%; Score 34; DB 2; Best Local Similarity 71.4%; Pred. No. 26; Matches 5; Conservative 1; Mismatches 1
                                                                                                                                           0; Mismatches
                                                                                                                                                                                                                                                                                                                     Sequence 58, Application US/09187789 Patent No. 6340740
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71.4%;
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Best Local Similarity 71.4
Matches 5; Conservative
                                                                                                                                           6; Conservative
                    TYPE: PRT
ORGANISM: Caffea arabica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; LENGTH: 56
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-187-789-58
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US-09-139-600-53
                                                                                                                                                                                                                         228 CKGDEFD 234
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                                                                                                    Query Match
Best Local Similarity
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                                                             US-09-971-020A-5
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US-09-187-789-58
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    LENGTH: 385
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LENGTH: 56
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RESULT 5

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Sequence 23216, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
CURRENT FILING DATE: 1999-02-13
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR APPLICATION NUMBER: US 60/096,409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                 APPLICANT: Alnemri, Emad S.
APPLICANT: Alnemri, Emad S.
APPLICANT: Pernandez-Alnemri, Teresa
TITLE OF INVENTION: CASPASE-14, AN APOTOTIC PROTEASE, NUCLEIC ACID ENCODING
TITLE OF INVENTION: AND METHODS OF USE
FILE REFERENCE: 480140.434D1
CURRENT APPLICATION NUMBER: US/09/989, 903
CURRENT FILING DATE: 2002-04-11
NUMBER OF SEQ ID NOS: 78
SOSTWARE: PATENTIN VOE: 2.0
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Batent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Minkle, Gregory C.
APPLICANT: Wispand, Roger C.
APPLICANTION: Wispand, Roger C.
APPLICANTION NUMBER: US/09/902, 540
CURRENT FILING DATE: 2001-07-10
PRIOR PRILING DATE: 2000-07-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
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Pred. No. 26;
1; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Mismatches
Sequence 58, Application US/09989903; Patent No. 6797812; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT; ORGANISM: Myxococcus xanthus
US-09-902-540-14307
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SEQ ID NO 14307
LENGTH: 92
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 82.9
Best Local Similarity 71.4
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Mus musculus
US-09-989-903-58
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31 CRGDETD 37
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68 CKGDDAD 74
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82.9%;
71.4%;
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                                      TOPOLOGY: linear MOLECULE TYPE: protein US-08-983-502-10
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289 CRGDETD 295
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                   1 CKGDEVD 7
    STRANDEDNESS:
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US-09-516-747-10
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                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: David WALLACH
APPLICANT: David WALLACH
APPLICANT: Mark P. BOLDIN
APPLICANT: Tanya M. GONCHAROV
APPLICANT: Yury V. GONCHAROV
APPLICANT: Yury V. GONCHAROY
TITLE OF INVENTION: MODULATORS OF THE FUNCTION OF FAS RECEPTORS
TITLE OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Browdy and Neimark
                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                            Length 251;
                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
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                                                                                                                                                                                                                                                                                                                            Score 34; DB 2; I
Pred. No. 1.1e+02;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 419 Seventh Street N.W., Ste. 300 CITY: Washington STATE: D.C. COUNTRY: USA ZIP: 2004 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURKENT APPLICATION DATA:
CURKENT APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 16-JAN-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 114,615
FILING DATE: 16-JUL-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 114,986
FILING DATE: 17-JUG-1995
PRIOR APPLICATION DATA:
APPLICATION DATA:
FILING DATE: 14-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 115,319
FILING DATE: 27-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 116,588
FILING DATE: 27-DEC-1995
PRIOR APPLICATION NUMBER: IL 117,932
FILING DATE: 16-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: BFOWMY, ROGET L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: 25,618
REFERENCE/DOCKET NUMBER: 25,618
REFERENCE/DOCKET NUMBER: 25,618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-983-502-10
; Sequence 10, Application US/08983502
; Patent No. 6399327
                                                                                                                                                                                                                                                                                                                            th 82.9%; Similarity 85.7%; 6; Conservative (
PRIOR FILING DATE: 1998-08-:
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 23216
LENGTH: 251
                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-23216
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Best Local Similarity
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Ouery Mail Statustry 71.4%; Procein

Best Local Similarity 71.4%; Pred. No. 1.7e-02;

Matches 5; Conservative 1; Mismatchee 2; Indels 0; Gaps

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Db 289 GROEND 295

RESULT 9

NO. 1.0 F. 1.0
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/080,850
FILING DATE: 24-UTN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Bugaisky, Lawrence B.
REGISTRATION NUMBER: 35,086
REFERENCE/DOCKET NUMBER: 0609.3920002
                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 435 amino acids TYPE: amino acid
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Best Local Similarity 71.4
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: protein
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COUNTRY: USA
ZIP: 20005
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    Gaps
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APPLICANT:
ATTLE OF INVENTION: MODULATORS OF THE FUNCTION OF FAS RECEPTORS TITLE OF INVENTION: AND OTHER PROTEINS NUMBER OF SEQUENCES: 34
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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Sequence 53, Application US/08258287B
Patent No. 6083735
GENERAL INFORMATION:
APPLICANT: Yuan, Junying
APPLICANT: Yuan, Junying
APPLICANT: Winswarki
TILLE OF INVENTION: Programmed Cell Death Genes and Proteins
NUMBER OF SEQUENCES: 85
CORRESPONDENCE ADDRESS:
ADDRESSE: Sterne, Kessler, Goldstein & Fox
STRET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            82.9%; Score 34; DB 4; Length 421; 71.4%; Pred. No. 1.7e+02; tive 1; Mismatches 1; Indels
Indels
                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/NS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/10521
  1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFCATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
IL 114,615
FILING DATE: 16-JUL-1995
RIOR APPLICATION DATA:
APPLICATION NUMBER: IL 114,986
FILING DATE: 17-AUG-1995
RIOR APPLICATION DATA:
APPLICATION NUMBER: IL 115,319
FILING DATE: 14-SEP-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 116,588
FILING DATE: 27-DEC-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: IL 117,932
FILING DATE: IG-APR-1996
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421 amino acids
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Best Local Similarity 71.4
Matches 5; Conservative
  5; Conservative
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                                                                  |:||| |
289 CRGDETD 295
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STRANDEDNESS: siz
                                          1 CKGDEVD 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 CKGDEVD 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20005
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PCT-US96-10521-10
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US-08-258-287B-53
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    Matches
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MEDULA TO SECURE SECURE
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COMPUTER REALBLE FORD

COMPUTER: IBM PC COMPAtible
COMPUTER: IBM PC COMPATIBLE
COMPUTER: IBM PC COMPATIBLE
COMPUTER: PRE-BLID
COMPUTER: PRE-BLID
COMPUTER: PRE-BLID
COMPUTER: PRE-BLID
COMPUTER: PRE-BLID
COMPATION UNDER: US/08/258,287B
FILING DATE: U-UN-1994
CLASSIFICATION UNDERE: US/08/258,287B
FILING DATE: 10-UN-1994
ATTORNEY/AGENT INFORMATION:
APPLICATION NUMBER: US/08/080,850
FILING DATE: 24-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: BUGSISKY, LAWTENCE B.
REGISTRATION NUMBER: 0609.3920001
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION OF SEQ ID NO: 53:
SEQUENCE CHARACTERISTICS:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PATENTION DATA:
APPLICATION NUMBER: US/08/368,704C
FILING DATE: US/08/368,287
PILING DATE: US/08/368,287
PILING DATE: US/08/1994
CLASSIFICATION: 435
CLASSIFICATION: 435
CLASSIFICATION: 435
CLASSIFICATION: 435
CLASSIFICATION: 435
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US-08-18[-075]
US-08-18[-075]
Sequence 2, Application US/08816075
Patent NO. 6416753
GENERAL INFORMATION:
APPLICANT: Vana, Junying
APPLICANT: Friedlander, Robert
TITLE OF INVENTION:
Programmed Cell Death and Interleukin-1
TITLE OF INVENTION:
STREET: 1100 New York Ave., N.W.
CITY: Washington
STREET: 1100 New York Ave., N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ILP: 20005
COMPUTER: Eloppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/816,075
FILING DATE: 13-MAR-1997
CLASSIFICATION NUMBER: US 60/013,524
FILING DATE: 15-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Bugaisky, Lawrence B.
TELECOMMUNICATION INFORMATION:
NAME: Bugaisky, Lawrence B.
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 435;
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Best Local Similarity 71.4
Matches 5; Conservative
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                                                                           303 CRGDETD 309
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Pred. No. 1.8e+02;
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Pred. No. 1.8e+02;
1; Mismatches 1; Indels
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TITLE OF INVENTION: RECOMBINANT, ACTIVE CASPASES AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 480140.431
CURRENT APPLICATION NUMBER: US/09/561,756
CURRENT FILING DATE: 2000-04-26
PRIOR APPLICATION NUMBER: 09/227,721
PRIOR FILING DATE: 1999-01-08
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FASISEQ for Windows Version 3.0
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Patent No. 6379950
GENERAL INFORMATION:
APPLICANT: Alnemai, Emad S.
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 480140.431
CURRENT APPLICATION NUMBER: US/09/227,721
CURRENT PILING DATE: 1999-01-08
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSEQ for Windows Version 3.0
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; Sequence 9, Application US/09561756
; Setuent No. 6376226
; GENERAL INFORMATION:
| TELEFAX: (202) 311-2600 | TELEFAX: (202) 371-2540 | TELEX: 248636 SSK | INFORMATION FOR SEQ ID NO: 51: SEQUENCE CHARACTERISTICS: TYPP | 435 amirc | Type | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 |
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Best Local Similarity 71.4%;
Matches 5; Conservative
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Matches 5; Conservative
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Matches 5; Conservative
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; MOLECULE TYPE: protein
US-08-368-704C-51
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TYPE: PRT
ORGANISM: Homo sapien
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TYPE: PRT
CRGANISM: Homo sapien
US-09-227-721-9
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US-09-227-721-9
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Sequence 54704, Application US/10767701

Sequence 54704, Application US/10767701

GENERAL INFORMATION:

APPLICANT: Zhou, Yinda

APPLICANT: Cao, Yorgwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement

FILE REFERENCE: 38-21(53535)B

CURRENT FILING DATE: 2004-01-29

NUMBER OF SEQ ID NOS: 63128

SEQ ID NO 54704

LENGTH: 72

LENGTH: 72
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; Sequence 357468, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
    APPLICANT: La Rosa, Thomas J.
; APPLICANT: APPLICANT: Acvalic, David K.
; APPLICANT: Acvalic, David K.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Plants
; TITLE OF INVENTION: Plants
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 357468
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Pred. No. 31;
2; Mismatches 0; Indels
US-08-459-455-43
US-10-205-219-28
US-10-205-219-28
US-10-450-763-30669
US-10-10-470-3902
US-10-10-470-3902
US-10-363-829-306
US-11-097-143-17838
US-10-916-940-60
US-10-934-614-60
US-10-039-831-3
US-10-039-831-3
US-10-034-614-60
US-10-039-831-3
US-10-126-570-1
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Best Local Similarity 71.4%,
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ORGANISM: Sorghum bicolor
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        FEATURE:
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Sequence 3, Appli
Sequence 5, Appli
Sequence 3, Appli
Sequence 5, Appli
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169, App
241939,
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(cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

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(cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/US108_PUBCOMB.pep:*
                             GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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US-10-425-115-357468
US-10-425-114-68057
US-09-971-020-3
US-09-971-020-3
US-10-802-773-3
US-10-802-773-3
US-10-732-923-10503
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US-10-732-923-10505
US-10-732-923-10505
US-10-732-923-10505
US-10-7424-599-193383
US-09-999-93-58
US-10-425-115-330473
US-09-999-93-58
US-10-425-115-330473
US-10-425-115-330473
US-10-425-115-330473
US-10-424-599-193383
US-10-425-115-330473
US-10-437-963-103838
US-11-021-911-169
US-10-437-963-103838
US-11-021-911-169
US-10-437-953-103838
US-10-437-953-103838
US-10-437-953-103838
US-10-437-963-103838
US-10-437-963-103838
US-10-280-455-51
US-10-280-670-9
US-10-280-670-9
US-10-280-670-9
US-10-973-858-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1867569 seqs, 417829326 residues
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                                                                                                                                                                                    December 27, 2005, 11:37:12
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                    - protein search, using sw model
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seq length: 200000000
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Match Length DB
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Result No.

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Gaps

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US-1082-773
Sequence 3, Application US/10802773
Publication No. US20040154055Al
GENERAL INFORMATION:
HISTORY HISTORY
APPLICANT: Sano, Hiroshi
APPLICANT: Kotsano, Tomonobu
APPLICANT: Kotsano, Tomonobu
APPLICANT: Kotsano, Tomonobu
APPLICANT: Kotsano, Tomonobu
TITLE OF INVENTION: Gene Encoding Said Polypeptide
TITLE OF INVENTION: Gene Encoding Said Polypeptide
CURRENT APPLICATION NUMBER: US/10/802,773
CURRENT PILING DATE: 2004-10-10
PRIOR FILING DATE: 2000-10-06
NUMBER OF SEQ ID NOS: 22
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 3
LENGTH: 385
TENGTH: 385
TYPE: PRT
CORRANISM: Caffea arabica
US-10-802-773-3
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85.7%; Pred. No. 2.4e+02;
tive 0; Mismatches 1; Indels
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85.7%; Pred. No. 2.4e+02;
iive 0; Mismatches 1; Indels
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US-10-802-773-5
; Sequence 5, Application US/10802773
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Best Local Similarity 85...
Fra 6; Conservative
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Best Local Similarity 85.7
Matches 6; Conservative
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TYPE: PRT
ORGANISM: Caffea arabica
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Sequence 3, Application US/09971020

Patent No. US20020108143A1

GENERAL INFORMATION:

APPLICANT: Sano, Hiroshi

TITLE OF INVENTION: Theobromine Synthase Polypeptide

TITLE OF INVENTION: Encoding Said Polypeptide

CURRENT APPLICATION NUMBER: US/09/971,020

CURRENT APPLICATION NUMBER: US/09/971,020

CURRENT APPLICATION NUMBER: D 2000-1307,149

PRIOR FILING DATE: 2000-10-06

NUMBER OF SEQ ID NOS: 8

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 3

LENGTH: 385
                                                                                                                                                                                                                            US-10-425-114-68057
US-10-425-114-68057
Sequence 68057, Application US/10425114
Fublication No. US2040034888A1
GENERAL INFORMATION:
APPLICANT: Liu, Jingdong
APPLICANT: Shou, Yihua
APPLICANT: Soviic, David K.
APPLICANT: Screen, Steven E
APPLICANT: Tabaska, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REPERENCE: 38-21(53313) B
CURRENT FILING DATE: 2003-04-28
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 68057
LENGTH: 103
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                                                                  Length 102;
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                                                                                                          Indels
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; OTHER INFORMATION: Clone ID: MRT4577_89180C.1.pep
US-10-425-115-357468
                                                                  Score 37; DB 4;
Pred. No. 44;
2; Mismatches (
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                                                                  90.2%;
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                                                 Ouery Match
Best Local Similarity
Them 5; Conserve
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66 CRGDEID 72
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ORGANISM: Zea mays
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US-09-971-020-3
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87.8%;
85.7%;
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Best Local Similarity 85.7%;
Matches 6; Conservative
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Best Local Similarity 85.79
- Local 6; Conservative
                                                        Query Match
Best Local Similarity 85.7
Matches 6; Conservative
   ; ORGANISM: Coffea arabica
US-10-732-923-10504
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US-10-732-923-10505
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; ORGANISM: Coffea arabica
US-10-732-923-10506
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US-10-424-599-257727
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US-10-732-923-10506
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Sano, Hiroshi
APPLICANT: Sano, Tomonobu
TITLE OF INVENTION: Theobromine Synthase Polypeptide
TITLE OF INVENTION: Theobromine Synthase Polypeptide
TITLE OF INVENTION: Gene Encoding Said Polypeptide
FILE OF BATE: 2061-0318
CURRENT APPLICATION NUMBER: US/10/802,773
CURRENT APPLICATION NUMBER: US/200-307,149
PRIOR PILING DATE: 2000-10-6
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 5.
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; Publication No. US20050108791A1
; GENERAL INFORMATION:
; APPLICANT EdgerCon, Michael D
; TITLE OF INVENTION: TANNGENIC PLANTS WITH IMPROVED PHENOTYPES
; FILE REFERENCE: 38-15(52796) C
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: 10/310,154
; PRIOR FILING DATE: 2002-12-04
; NUMBER OF SEQ ID NOS: 24149
; SEQ ID NO 10504
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Publication No. US20050108791A1
REMEMBLI INFORMATION:
APPLICANT: Edgerton. Michael D
TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15(52796)C
CURRENT APPLICATION NUMBER: 10/310/154
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2003-12-04
NUMBER OF SEQ ID NOS: 24149
                                                                                                                                                                                                                                                                                                                                                                                 Length 385;
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85.7%; Pred. No. 2.4e+02;
Artive 0; Mismatches 1;
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Best Local Similarity 85.7
Matches 6; Conservative
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; ORGANISM: Coffea arabica
US-10-732-923-10503
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US-10-802-773-5
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US-10-732-923-10504
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RESULT 15
US-10-424-599-193383
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APPLICANT: Kovalic David K
APPLICANT: Kovalic David K
APPLICANT: Covalic David K
APPLICANT: Can Yihua
TITLE OF INVENITON: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENITON: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 257727
TEMPORTH: 51
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Sequence 57012, Application US/10767701

GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Zhou, Yaihua
APPLICANT:
Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With FILLE OF INVENTION: Dlants and Uses Thereof For Plant Improvement FILE REFERENCE: 38-21(55535)B
CURRENT APPLICATION NUMBER: US/10/767,701
CURRENT PILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 57012
LENGTH: 103
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Publication No. US20040214272A1
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Zhou, Yihua
APPLICANT: Zhou, Yihua
APPLICANT: Conversed to the conversed to t
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  85.4%; Score 35; DB 4; Length 51; ilarity 71.4%; Pred. No. 52; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Clone ID: PAT_MRT3847_74751C.1.pep
US-10-424-599-257727
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US-10-767-701-57012
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Best Local Similarity
There 5; Conserve
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13 CKGDDLD 19
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US-10-425-115-330473
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Sequence 193383, Application US/10424599

Publication No. US20040031072A1

GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Coo Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
TITLE OF INVENTION Plants and Uses Thereof for Plant Improvement
FILE REPERENCE: 38-21(5322)B
CURRENT FILING DATE: 2003-04-28

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 193383
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85.7%; Pred. No. 4.9e+02;
ive 0; Mismatches 1; Indels
                                                                                                                              Length 393;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; OTHER INFORMATION: Clone ID: PAT_MRT3847_1664C.1.pep
US-10-424-599-193383
                                       ; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_64492C.1.pep
US-10-425-115-330473
                                                                                                              Cuery Match

85.4%; Score 35; DB 4; i
Best Local Similarity 71.4%; Pred. No. 3.7e+02;
Matches 5; Conservative 2; Mismarchee
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Begt Local Similarity 85.7°
Lang 6; Conservative
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TYPE: PRT
ORGANISM: Zea mays
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77, Appl 4358, Ap 60, Appl 2340, Ap

Sequence Sequence Sequence

Searched:

Database

Result No.

Sequence:

Run on:

29, Appl 40, Appl 11932, Ap 899, App 5322, App 77, Appl 3236, Ap 114, Appl 11520, Appl 3236, Appl 3

Sequence seq

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GENERAL INCORPATION;
CARRELL INCORPATION;
CARRELL INCORPATION;
APPLICANT: Korsmeyer, Stanley J.
APPLICANT: Vordine, Gregory
TITLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: 00530-124001
CURRENT APPLICATION NUMBER: US/10/981,873
CURRENT FILING DATE: 2004-11-05
PRIOR FILING DATE: 2003-11-05
PRIOR FILING DATE: 2003-11-05
PRIOR FILING DATE: 2004-07-27
NUMBER OF SEQ ID NOS: 117
SOFTWARE: PASESEQ FOR WINDOWS Version 4.0
SEQ ID NO 20
LENGTH: 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 49, Application US/10881873
; Sequence 49, Application US/20050250680A1
; Publication No. US20050250680A1
; GENERAL INFORMATION:
; APPLICANT: Korsmeyer, Stanley J.
; APPLICANT: Korsmeyer, Stanley J.
; APPLICANT: Wordine, Staegory
; TILLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND
; TILLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 00530-124001
; CURRENT APPLICATION NUMBER: US/10/981,873
; CURRENT FILING DATE: 2004-11-05
; PRIOR APPLICATION NUMBER: US 60/517,848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 9;
US-11-069-858-9
US-11-006-031-29
US-11-006-031-29
US-11-054-515-899
US-11-054-515-899
US-10-131-826A-532
US-10-793-626-3236
US-10-793-626-3236
US-10-793-626-3236
US-10-793-626-3236
US-10-793-626-3334
US-10-793-626-3324
US-11-13-751-46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           73.2%; Score 30; DB 6; L
71.4%; Pred. No. 4.1e+04;
iive 1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20, Application US/10981873; Publication No. US20050250680A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match
Best Local Similarity 71.*
5. Conservative
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ORGANISM: Homo sapiens
US-10-981-873-20
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    RESULT 1
US-10-981-873-20
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Sequence 10, Appl
Sequence 11, Appl
Sequence 5, Appli
Sequence 6, Appli
Sequence 6, Appli
Sequence 2, Appli
Sequence 52, Appl
Sequence 370, App
Sequence 1002, Ap
Sequence 1002, Ap
Sequence 234, App
Sequence 234, App
Sequence 2276, App
Sequence 922, App
Sequence 923, App
Sequence 111, App
Sequence 111, App
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                                                                                                                                                             December 27, 2005, 11:36:08; Search time 13.4167 Seconds (without alignments)
3.721 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Published Applications AA New:*

1: /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*

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5: /cgn2_6/ptodata/2/pubpaa/USO9_NEW_PUB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/USIO_NEW_PUB.pep:*

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8: /cgn2_6/ptodata/2/pubpaa/USIO_NEW_PUB.pep:*
                             GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-981-873-49

US-10-981-873-49

US-10-981-873-10

US-10-981-873-10

US-11-108-841-11

US-11-108-841-11

US-11-108-841-11

US-11-085-87-6

US-11-087-227-4

US-11-055-822-370

US-11-055-822-306

US-11-055-822-1002

US-11-055-822-1002
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US-10-131-826A-142
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US-10-995-561-923
US-11-069-642-111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                           54001 segs, 7132810 residues
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                         OM protein - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match Length DB
                                                                                                                                                                                                                                                                                                            1 CKGDEVD 7
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Perfect score:
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Gaps

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; OTHER INFORMATION: Naturally occurring peptide US-10-981-873-8
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PRIOR APPLICATION NUMBER: US 60/591,548
PRIOR FILING DATE: 2004-07-27
NUMBER OF SEQ ID NOS: 117
SECTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-981-873-79; Sequence 78, Application US/10981873; Publication No. US20050250680A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 8, Application US/10981873; Publication No. US20050250680A1; GENERAL INFORMATION:
                                                                                                                                                                  ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                  Query Match 73.2%;
Best Local Similarity 71.4%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                        8 CIGDEMD 14
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US-10-981-873-8
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APPLICANT: Walensky, Loren D.
APPLICANT: Warsmeyer, Stanley J.
APPLICANT: Wordine, Gregory
TITLE OF INVENTION: STABLIZED ALPHA HELICAL PEPTIDES AND
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: 00530-124001
CURRENT APPLICATION NUMBER: US/10/981,873
CURRENT FILING DATE: 2004-11-05
PRIOR FILING DATE: 2003-11-05
PRIOR FILING DATE: 2003-11-05
PRIOR FILING DATE: 2004-07-27
NUMBER OF SEQ ID NOS: 117
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match

73.2%; Score 30; DB 6; Length 14;
Best Local Similarity 71.4%; Pred. No. 1.6;
Matches 5; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                        Query Match

73.2%; Score 30; DB 6; Length 14;
Best Local Similarity 71.4%; Pred. No. 1.6;
Matches 5; Conservative 1; Mismatches 1; Indels
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APPLICANT: Korsmeyer, Stanley J.
APPLICANT: Vorsineyer, Stanley J.
APPLICANT: Vardine, Gregory
TITLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND
FITLE OF INVENTION: USES THEREOF
FILLE REFERENCE: 00530-124001
CURRENT APPLICATION NUMBER: US/10/981,873
PRIOR APPLICATION NUMBER: US 60/517,848
PRIOR FILING DATE: 2003-11-05
                                                                                                                                                                                                                                          ; OTHER INFORMATION: Naturally occurring peptide US-10-981-873-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Naturally occurring peptide
                            PRIOR APPLICATION NUMBER: US 60/591,548
PRIOR FILING DATE: 2004-07-27
NUMBER OF SEQ ID NOS: 117
SEQ ID NO 49
LENGTH: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 50, Application US/10981873 Publication No. US20050250680A1 GENERAL INFORMATION:
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Publication No. US20050250680A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
                                                                                                                                                                       TYPE: PRT ORGANISM: Artificial Sequence
         PRIOR FILING DATE: 2003-11-05
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                                                                                                                                                                                                                      FEATURE:
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APPLICANT: KOLSMEY' LOTEN D.

APPLICANT: KOLSMEYE', Stanley J.

APPLICANT: Verdine, Gregory

TITLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND

TITLE OF INVENTION: USES THEREOF

FILE REFERENCE: 00530-124001

CURRENT APPLICATION NUMBER: US/10/981,873

CURRENT FILING DATE: 2004-11-05

PRIOR APPLICATION NUMBER: US 60/517,848

PRIOR FILING DATE: 2004-07-27

NUMBER OF SEQ ID NOS: 117

SOFTWARE: FRAELSEQ for Windows Version 4.0

SEQ ID NO 8

LENGTH: 20
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APPLICANT: Walensky, Loren D.
APPLICANT: Walensky, Loren D.
APPLICANT: Verdine, Gregory
TITLE OF INVENTION: STRABILIZED ALPHA HELICAL PEPTIDES AND
TITLE OF INVENTION: USES THEREOF
FILE REFRENCE: 00530-124001
CURRENT APPLICATION NUMBER: US 60/517,848
PRIOR APPLICATION NUMBER: US 60/517,848
PRIOR PILING DATE: 2003-11-05
PRIOR PILING DATE: 2003-11-05
PRIOR PLING DATE: 2003-11-05
  Length 18;
                                                  1; Indels
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Score 30; DB 6;
Pred. No. 2;
1; Mismatches
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; LENGTH: 267
; TYPE: PRT
; OCRAMN: Aspergillus niger
US-10-495-597-5
                                                                                                                     Best Local Similarity 83.3
Matches 5, Conservative
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Matches 5; Conservative
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US-11-087-227-4
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US-10-495-597-6
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US-11-087-227-4
                                                                                                     Query Match
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Sequence 5, Application US/10495597

Sequence 5, Application US/10495597

Publication Wo. US2085025554A1

GENERAL INFORMATION:

APPLICANT: Svendsen, Allan

APPLICANT: Briandsen, Hans Peter

APPLICANT: Held-Hansen, Hans Peter

APPLICANT: Lipolytic Enzyme Variants and Method for their Production

ITILE REFERENCE: 10248.204-US

CURRENT FILING DATE: 2004-05-14

PRIOR APPLICATION NUMBER: PCT/DK03/0028

PRIOR APPLICATION NUMBER: PCT/DK03/0028

PRIOR APPLICATION NUMBER: DX 5002-01-16

PRIOR PILING DATE: 2002-01-16

PRIOR PLING DATE: 2002-01-16

PRIOR PLING DATE: 2002-01-16

WUMBER OF SEQ ID NOS: 14

SOFTWARE: PATENTIN Version 3.2

SEQ ID NO 5
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APPLICANT: HATORI, Mitsuhiro
APPLICANT: HATORI, Mitsuhiro
APPLICANT: HAGO, Takayasu
TITLE OF INVENTION: A Molecular Entity for Controlling a Calcium
FILE REPERENCE: 123530
CURRENT APPLICATION NUMBER: US/11/108,841
CURRENT FILING DATE: 2005-04-19
PRIOR APPLICATION NUMBER: JP 2004-124443
PRIOR FILING DATE: 2004-04-20
NUMBER OF SEQ ID NOS: 11
SOFTWARE: Patentin version 3.3
SEQ ID NO 11
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                                                                                                                                                                                                                      Length 20;
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                                                                                                                                                                                                                      73.2%; Score 30; DB 6; 71.4%; Pred. No. 2.2; tive 1; Mismatches
                                                                                                                                        ; FEATURE:
; OTHER INFORMATION: Naturally occurring peptide
US-10-981-873-78
PRIOR FILING DATE: 2004-07-27
NUMBER OF SEQ ID NOS: 117
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 78
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 11, Application US/11108841; Publication No. US20050260657A1; GENERAL INFORMATION:
                                                                                                       TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                    Query Match 73.2:
Best Local Similarity 71.4
Matches 5; Conservative
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ORGANISM: Murinae gen. sp
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Matches 4; Conserv
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Ower Watch

Decoration: Aspergillus niger

Sequence 6, Application US/1049597

Sequence 7, Application US/1049597

Sequence 7, Application US/1049597

Sequence 7, Application US/1049597

Sequence 7, Application US/1049727

Sequence 7, Application US/1049597

Sequence 8, Application US/1049597

Sequence 8, Application US/1049597

Sequence 9, Application US/1049597

Sequence 10 Sequence 10444430129

Sequence 10 Sequence 10444430129

Sequence 11106 Sequence 10444430129

Sequence 11106 Sequence 10444430129

Sequence 11106 Sequence 10444430129

Sequence 11106 Sequence 1044430129

Sequence 11106 Sequence 1106 Sequence 1106 Sequence 11
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US-11-055-822-1002
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Sequence 52, Application No. US2005025026A1

Bublication No. US2005025026A1

GENERAL INFORMATION:

TITLE OF INVENTION: De of associations between at least one nucleic sequence

TITLE OF INVENTION: Use of associations between at least one seed

TITLE OF INVENTION: polyworphism of the SH2 gene and at least one seed

TITLE OF INVENTION: quality characteristic in plant selection methods:

FILE REFREENCE: SH2

CURRENT APPLICATION NUMBER: US/10/486,968

CURRENT FILING DATE: 2004-02-17

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn Ver. 2.1

SSEQ ID NO 52

LENGTH: 516

TYPE: PRT

CRADAISM: Zea mays

US-10-486-968-52
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Pred. No. 74;
2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    70.7%; Score 29; DB 7; Length 410; 66.7%; Pred. No. 59; 1; Mismatches 1; Indels
Score 29; DB 7; Length 395;
Pred. No. 57;
                                              1; Indels
                                                                                                                                                                                                                                                                                                                                     APPLICANT: Malinowski, Douglas P.
APPLICANT: Taylor, Adriann J.
APPLICANT: Taylor, Adriann J.
APPLICANT: Parker, Margaret R.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE TITLE OF INVENTION: DETECTION OF CERVICAL DISEASE FILE REFERENCE: 046143/287139
CURRENT APPLICATION NUMBER: US/11/087,227
CURRENT FILING DATE: 2005-03-23
PRIOR FILING DATE: 2004-03-24
                                              1; Mismatches
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 410
TYPE: PRT
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Publication No. US20050260566A1
GENERAL INFORMATION:
APPLICANT: Fischer, Timothy J.
  70.7%;
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57.18;
Query Match
Best Local Similarity 66.73
Matches 4; Conservative
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Best Local Similarity 66.7
Matches 4; Conservative
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Best Local Similarity 57.1
Matches 4; Conservative
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US-11-087-227-2
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206 CSGDEI 211
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CEGDGID 25
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RESULT 13

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Sequence 100 Application UN/1058922

Sequence 100 Application UN/1058922

APPLICANT: Romedia. Markes

APPLICANT: Schoole, Harkard

APPLICANT: Maberlauer, Gregor, Britant Forthus

TITLE OF INVESTION: OVERSACTION MARSE: 105-02-1

PRIOR FILING DATE: 2000-06-23

PRIOR FILING DATE: 2000-06-30

PRIOR FILING DATE: 3000-06-30

PRIOR FILING DATE: 3000-06-30

PRIOR FILING DATE: 3000-03-00

PRIOR PRIOR FORDER (SALING DATE)

PRIOR FILING DATE: 3000-03-00

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US-11-US-922-368

Sequence 368, Application US/11055822

Publication No. US200050607071

Sequence 368, Application US/11055822

Publication No. US200050607071

APPLICANT: Pompedius, Markus

APPLICANT: Schreder, Darkhard

APPLICANT: Schreder, Markus

APPLICANT: Schreder, Markus

APPLICANT: Abberlauer, Gregor

TITLE OF INVENTION: CRYNEBACTERIUM GLUTAMICUM GENES ENCODING

TITLE OF INVENTION: MARBER: US/11/055,822

CURRENT APPLICATION NUMBER: US/11/055,822

CURRENT PILING DATE: 1999-00-02-11

PRIOR PILING DATE: 1999-00-06-23

PRIOR PLILING DATE: 1999-00-02

PRIOR PLILING DATE: 1999-00-03

PRIOR APPLICATION NUMBER: 60/14,031

PRIOR APPLICATION NUMBER: 60/146,13

PRIOR PLILING DATE: 1999-00-02

PRIOR PLILING DATE: 1999-00-02

PRIOR PLILING DATE: 1999-00-03

PRIOR PLILING DATE: 1999-00-04

PRIOR APPLICATION NUMBER: DE 19931415.2

PRIOR APPLICATION NUMBER: DE 19931418.7

PRIOR APPLICATION NUMBER: DE 19931418.7

PRIOR APPLICATION NUMBER: DE 19931419.5

PRIOR PLILING DATE: 1999-00-06

PRIOR PLILING 
PRIOR FILING DATE: 1999-08-12
PRIOR PELICATION NUMBER: 60/187,970
PRIOR PELING DATE: 2000-03-09
PRIOR FILING DATE: 1999-07-01
PRIOR PELING DATE: 1999-07-01
PRIOR PELING DATE: 1999-07-01
PRIOR PELING DATE: 1999-07-06
PRIOR PELING DATE: 1999-07-08
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; ORGANISM: Corynebacterium glutamicum
US-11-055-822-1002
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1 GDEVD 5
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US-11-006-031-29
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Sequence 9, Appli
Sequence 29, Appl
Sequence 5722, Ap
Sequence 14, Appl
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25, Appl
49, Appl
50, Appl
54, Appl
10, Appl
8, Appli
78, Appli
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Sequence 7256, Ap
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                                                               December 27, 2005, 11:36:08; Search time 9.58333 Seconds (without alignments)
3.721 Million cell updates/sec
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                                                                                                                                                                                                                                                                                  /cgn2_6/ptodata/2/pubpaa/USO8_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USI0_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USI1_NEW_PUB.pep:*
/cgn2_6/ptodata/2/pubpaa/USI1_NEW_PUB.pep:*
         5.1.6
Compugen Ltd
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US-10-416-047-14
US-10-921-152
US-11-000-463-423
US-11-000-463-423
US-11-000-463-423
US-10-667-657-180
US-10-981-873-19
US-10-981-873-25
US-10-981-873-50
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US-10-467-657-7256
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-10-981-873-70
                                                                                                                                                                                                                                                                          Published_Applications_AA_New:*
          GenCore version (c) 1993 - 2005
                                                                                                                                                                     54001 segs, 7132810 residues
                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                               OM protein - protein search, using sw model
                                                                                                                                          BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                           Minimum DB seq length: 0
Maximum DB seq length: 2000000000
                                                                                                US-09-473-619D-1
27
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Match Length
                  Copyright
                                                                                                                       1 GDEVD 5
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Perfect score:
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No.
                                                                 Run on:
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APPLICANT: Huang, Xueying
APPLICANT: Wang, Hong
APPLICANT: Wang, Hong
APPLICANT: Whiting, Gary
TITLE OF INVENTION: Long Lasting Waterproof Sunscreen Comprising Metal Oxide
TITLE OF INVENTION: Nanoparticles and Peptide Conditioner
FILE REFERENCE: CL2995 US CIP
CURRENT APPLICATION NUMBER: US/11/069,858
CURRENT FILING DATE: 2005-02-28
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentin version 3.3
SEQ ID NO 9
LENGTH: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                             232, App
282, App
12, App
12, Appl
1, Appli
20, Appl
216, App
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4, Appli
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Sequence 29, Application US/11006031
CENERAL INFORMATION:
APPLICANT: Wood, Keith V.
APPLICANT: Los, Georgyi V.
APPLICANT: Los, Georgyi V.
APPLICANT: English, Chad
APPLICANT: Promega Corporation
TITLE OF INVENTION: Substrates for Covalent Tethering to Proteins
FILE REPERENCE: 341.035081
CURRENT APPLICATION NUMBER: US/11/006,031
                                                                                                                                                                                                                                                       Sequence 2
Sequence 3
Sequence 4
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Sequence
Sequence
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Sequence
Sequence
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US-10-467-657-4840
US-11-108-528-38
US-11-108-528-36
US-11-074-176-232
US-11-191-374-12
US-11-191-374-12
US-11-061-882-186-10
US-11-062-186-1
US-11-061-882-20
US-11-084-554-218
US-11-061-821-17
US-11-061-821-17
US-11-061-821-17
US-11-061-821-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Caspase 3 cleavage site
                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 1
US-11-069-858-9
; Sequence 9, Application US/11069858
; Publication No. US20050249682A1
; GENERAL INFORMATION:
; APPLICANT: Buseman-Williams, Janine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Artificial Sequence
    Best Local Similarity
Matches 5; Conserv
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100.0%; Score 27; DB 6; Length 4128;
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PRIOR APPLICATION NUMBER: PCT/CA01/01561
PRIOR FILING DATE: 2001-11-07
NUMBER OF SEQ ID NOS: 22
SOFTWARE: Patentin version 3.1
SEQ ID NO 14
                                                                                                                                      TYPE: PRT , ORGANISM: Aeromonas hydrophila US-10-416-047-14
                                                                                                                                                                                                        Query Match
Best Local Similarity 100.
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Best Local Similarity 100.
Matches 5; Conservative
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Sequence 14, Application US/10416047

Sequence 14, Application US/200506512A1

Sequence 10. US20050266512A1

GENERAL INFORMATION:

APPLICANT: Buckley

TITLE OF INVENTION:

FILE REFERENCE: 63198-1353

CURRENT APPLICATION NUMBER: US/10/416,047

CURRENT FILING DATE: 2003-05-05

PRIOR FILING DATE: 2000-11-07
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                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 27; DB 7; Length 17; Best Local Similarity 100.0%; Pred. No. 1.9; Matches 5; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 5722, Application US/10467657
Publication No. US20050260581A1
GENEZAL INFORMATION:
APPLICANT: CHIRON SAN AFIA
APPLICANT: FONTANA MARIA Rita
APPLICANT: POZZA MARIAGRAZIA
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
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           PRIOR APPLICATION NUMBER: US 10/768,976
PRIOR PILING DATE: 2004-01-30
PRIOR PILING DATE: 2004-01-30
PRIOR APPLICATION NUMBER: US 60/444,094
PRIOR PILING DATE: 2003-01-31
PRIOR PILING DATE: 2003-01-31
PRIOR PILING DATE: 2003-05-30
PRIOR FILING DATE: 2004-07-30
PRIOR FILING DATE: 2004-07-30
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FASELSEQ for Windows Version 4.0
SEQ ID NO 29
LENGTH: 17
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CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR FILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 5722
LENGTH: 360
                                                                                                                                                                                                                                                                                                                                                           OTHER INFORMATION: A synthetic peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ) ORGANISM: Neisseria gonorrhoeae US-10-467-657-5722
                                                                                                                                                                                                                                                                                                                   ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 5; Conservative
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US-10-467-657-5722
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RESULT 6
US-10-770-726-77

US-10-770-726-77

Sequence 77, Application US/10770726

Sequence 77, Application US/10770726

GENERAL INFORMATION:
GAPLICANT: Wyeth

APPLICANT: Wyeth

APPLICANT: Liv, Wei

APPLICANT: Liu, Wei

TITLE OF INVENTION: CANCERS

FILE REFERENCE: AM101079 (031896-010000)

CURRENT PILING DATE: 2004-02-04

NUMBER OF SEQ ID NOS: 48640

SOFTWARE: Patentin version 3.2

SEQ ID NO 77

LENGTH: 4128
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US-10-821-234-1520

US-10-821-234-1520

Sequence 15.20, Application US/10821234

Publication No. US20050255114A1

GENERAL INFORMATION:
APPLICANT: Labat, Ivan
APPLICANT: Andarmani, Susan
APPLICANT: Andarmani, Susan
APPLICANT: Arang, Y. Tom
TILE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
FILE REFERENCE: 821A
CURRENT APPLICATION NUMBER: US/10/821,234

CURRENT PILING DATE: 2003-04-07

PRIOR APPLICATION NUMBER: US 60/462,047

PRIOR FILING DATE: 2003-04-07

NUMBER OF SEQ ID NOS: 1704

SEQ ID NOS: 1704

SEQ ID NO 1520

SEQ ID NO 1520
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100.0%; Score 27; DB 6; Length 486; 100.0%; Pred. No. 58; o; Mismatches 0; Indels
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Gaps
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Pred. No. 2e+02;
1; Mismatches 0; Indels
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APPLICANT: CHIRON SpA
APPLICANT: FOUTAND Maria Rita
APPLICANT: FOUTAND Maria Rita
APPLICANT: MASIGNANI Vega
APPLICANT: MASIGNANI Vega
APPLICANT: MONACI Elisabetta
TITHE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR FILING DATE: 2001-02-12
NUMBER: OF SEQ ID NOS: 9218
SOFTWARE: Seqwin99, version 1.04
SEQ ID NO 180
    APPLICANT: Cao, XI-CIRUB
APPLICANT: Dramanac, Radoje T.
ITILE OF INVENTION: Novel Nucleic Acids and Polypeptides
FILE REFERENCE: 785CIP4CN
CURRENT APPLICATION NUMBER: US/11/000,463
CURRENT FILING DATE: 2004-11-29
PRIOR APPLICATION NUMBER: PCT/US01/02623
PRIOR FILING DATE: 2001-01-25
PRIOR APPLICATION NUMBER: 09/491,404
PRIOR FILING DATE: 2001-08-03
PRIOR PILING DATE: 2001-08-03
PRIOR PLILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: 09/631,404
PRIOR FILING DATE: 2000-01-25
PRIOR FILING DATE: 2000-01-25
PRIOR FILING DATE: 2000-03-17
PRIOR FILING DATE: 2000-09-15
PRIOR FILING DATE: 2000-09-15
NUMBER OF SEQ ID NOS: 944
SOFTWARE: PSECSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 859;
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80.0%; Pred. No. 1.7e+02;
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US-10-467-657-3764
; Sequence 3764, Application US/10467657
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; Sequence 180, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , ORGANISM: Neisseria gonorrhoeae
US-10-467-657-180
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80.0%;
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Best Local Similarity 80.0
Matches 4; Conservative
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Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ORGANISM: Homo sapiens
US-11-000-463-895
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249 GDEID 253
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                                                                                                                                                                                                                                                                                         APPLICANT: Tang Y Tom
APPLICANT: Tang Y Tom
APPLICANT: Asundi, Vinod
APPLICANT: Asundi, Vinod
APPLICANT: Chen, Rui-hong
APPLICANT: Wang, Zhiwei
APPLICANT: Wang, Zhiwei
APPLICANT: Zhang, Jie
APPLICANT: Zhang, Jie
APPLICANT: Zhou, Ping
APPLICANT: Zhou, Ping
APPLICANT: Cao, Yi-Cheng
APPLICANT: Dramac, Radoje T.
ITILE OF INVENTION: Novel Nucleic Acids and Polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 859;
                          Indels
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    Pred. No. 5.1e+02;
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80.0%; Pred. No. 1.7e+02;
tive 1; Mismatches 0;
                          0; Mismatches
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PRIOR PILING DATE: 2002-11-08
PRIOR PILING DATE: 2002-11-08
PRIOR FILING DATE: 2001-01-25
PRIOR FILING DATE: 2001-01-25
PRIOR PILING DATE: 2001-08-03
PRIOR PRIOR DATE: 2001-08-03
PRIOR PILING DATE: 2001-08-03
PRIOR PILING DATE: 2000-01-25
PRIOR PILING DATE: 2000-09-03
PRIOR PILING DATE: 2000-09-15
PRIOR PILING DATE: 2000-09-15
NUMBER OF SEC ID NOS: 944
SOFTWARE: PRESEC FOR WINDOWS VERSION 3.0
SERVITARE PRESEC FOR WINDOWS VERSION 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/11/000,463 CURRENT FILING DATE: 2004-11-29
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Publication No. US20050266423A1
GENERAL INFORMATION:
APPLICANT: Tang, Y Tom
APPLICANT: Liu, Chenghua
APPLICANT: Applicant Enang, Jie
                                                                                                                                                                                                                       Sequence 423, Application US/11000463; Publication No. US20050266423A1; GENERAL INFORMATION:
  100.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 96.3
Best Local Similarity 80.0
Matches 4; Conservative
Best Local Similarity 100.
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wehrman, Tom
Zhang, Jie
Zhou, Ping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 785CIP4CN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , ORGANISM: Homo sapiens
US-11-000-463-423
                                                                                                            2709 GDEVD 2713
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249 GDEID 253
                                                                       1 GDEVD 5
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US-11-000-463-895
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APPLICANT: Vortaine, Gregory
TITLE OF INVENTION: STABILIZED ALPHA HELICAL FEPTIDES AND
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: 00530-12401
CURRENT APPLICATION NUMBER: US/10/981,873
CURRENT FILING DATE: 2004-11-05
PRIOR APPLICATION NUMBER: US 60/517,848
PRIOR APPLICATION NUMBER: US 60/591,548
PRIOR APPLICATION NUMBER: US 60/591,548
PRIOR PLING DATE: 2004-77-27
NUMBER OF SEQ ID NOS: 117
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.9%; Score 24; DB 6; Length 9;
80.0%; Pred. No. 4.1e+04;
ive 1; Mismatches 0; Indels
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Publication No. US20050250680A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Walensky, Loren D.
APPLICANT: Verdine, Gregory
TITLE OF INVENTION: STABLILIZED ALPHA HELICAL PEPTIDES AND TITLE OF INVENTION: USES THEREOF
FILE REPERENCE: 00530-12401
CURRENT APPLICATION NUMBER: US/10/981,873
CURRENT FILING DATE: 2004-11-05
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TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: 00530-124001
CURRENT APPLICATION NUMBER: US/10/981,873
CURRENT FILING DATE: 2004-11-05
PRIOR APPLICATION NUMBER: US 60/517,848
PRIOR FILING DATE: 2003-11-05
PRIOR FILING DATE: 2003-11-05
NUMBER OF SEQ ID NOS: 117
SOFTWARE: PASLSEQ for Windows Version 4.0
SEQ ID NO 20
LENGTH: 9
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; Sequence 25, Application US/10981873
; Publication No. US20050250680A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Walensky, Loren D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 80...
4; Conservative
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Matches 4; Conservative
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ORGANISM: Homo sapiens
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CRGANISM: Homo sapiens
US-10-981-873-25
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5 GDEMD 9
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5 GDELD 9
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US-10-981-873-49
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i Sequence 19, Application US/10981873

j Sequence 19, Application US/10981873

j Bublication No. US20050250660A1

j GENERAL INFORMATION:

j APPLICANT: Walensky, Loren D.

j APPLICANT: Watensky, Loren D.

j TITLE OF INVENTION: STABLILED ALPHA HELICAL PEPTIDES AND TITLE OF INVENTION: USES THEREOF

FILE REFERENCE: 00530-124001

j CURRENT APPLICATION NUMBER: US 60/517,848

PRIOR PILING DATE: 2004-11-05

pRIOR PILING DATE: 2004-07-27

j WUMBER OF SEQ ID NOS: 117

s SOFTWARE: FastSEQ for Windows Version 4.0

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                                                                    APPLICANT: CHIRON SpA
APPLICANT: CHIRON SpA
APPLICANT: FOUTANA Maria Rita
APPLICANT: PIZZA Mariagrazia
APPLICANT: MASIGANI Vega
APPLICANT: MASIGANI Vega
APPLICANT: MASIGANI Vega
APPLICANT: MONACI Elisabetta
TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/467,657
CURRENT FILING DATE: 2003-08-11
PRIOR APPLICATION NUMBER: GB-0103424.8
PRIOR PRILING DATE: 2001-02-12
NUMBER OF SEQ ID NOS: 9218
SOFTWARE: SeqWin99, version 1.04
SEQ ID NO 3764
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80.0%; Pred. No. 2e+02;
tive 1; Mismatches 0; Indels
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PUblication No. US20050250680A1
GENERAL INFORMATION:
APPLICANT: Walensky, Loren D.
APPLICANT: Korsmeyer, Stanley J.
APPLICANT: Vacadine, Greegory
TITLE OF INVENTION: STABILIZED ALPHA HELICAL PEPTIDES AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ) ORGANISM: Neisseria gonorrhoeae US-10-467-657-3764
       Publication No. US20050260581A1
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Best Local Similarity 80.0
Matches 4; Conservative
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CORGANISM: Mus musculus
US-10-981-873-19
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US-10-981-873-50

i Sequence 50, Application US/10981873

i Publication No. US20050250680A1

i GENERAL INFORMATION:
APPLICANT: Walensky, Loren D.
APPLICANT: Walensky, Loren D.
APPLICANT: Wordine, Gregory
ITLE OF INVENTION: USES THEREOF
FILE REFERENCE: OS30-124001

CURRENT APPLICATION NUMBER: US/10/981,873

CURRENT FILING DATE: 2004-11-05

PRIOR PILING DATE: 2004-11-05

PRIOR PILING DATE: 2004-11-05

PRIOR PILING DATE: 2004-07-27

NUMBER OF SEQ ID NOS: 117

SOFTWARE: PARSEQ for Windows Version 4.0

SEQ ID NO 50

LENGTH: 14
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88.9%; Score 24; DB 6; Length 14;
Best Local Similarity 80.0%; Pred. No. 6.7;
Matches 4; Conservative 1; Mismatches 0; Indels
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PRIOR FILING DATE: 2003-11-05
PRIOR APPLICATION NUMBER: US 60/591,548
PRIOR FILING DATE: 2004-07-27
NUMBER OF SEQ ID NOS: 117
SOFTWARE: FastSEQ for Windows Version 4.0
LENGTH: 14
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ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT ORGANISM: Artificial Sequence
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8 GDEMD 12
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Search completed: December 27, 2005, 11:37:30 Job time : 9.58333 secs

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Sequence 18, Application US/10165258
Publication No. US20030092029A1
GENERAL INFORMATION:
APPLICANT: JOSEPHSON, Lee
APPLICANT: Weissleder, Ralph
APPLICANT: Weissleder, Ralph
TITLE OF INVENTION: MAGNETIC - NANOPARTICLE CONJUGATES AND METHODS (FILE REFERENCE: 00786-53701)
FILE REFERENCE: 20786-53701
CURRENT APPLICATION NUMBER: US/10/165,258
CURRENT FILING DATE: 2002-10-15
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Sequence 18, Appli
Sequence 2, Appli
Sequence 235, Appli
Sequence 235, Appli
Sequence 4, Appli
Sequence 65, Appli
Sequence 60, Appli
Sequence 52, Appli
Sequence 52, Appli
Sequence 26, Appli
Sequence 21, Appli
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22.585 Million cell updates/sec
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
            GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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S-09-874-350A-18
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US-10-165-258-18

US-10-466-552A-1

US-09-662-224-2

US-09-747-287-235

US-09-747-287-235

US-09-747-287-235

US-10-341-970-4

US-10-31-65

US-11-033-642-65

US-11-033-873-8

US-11-033-873-8

US-10-341-979-8

US-10-916-940-60

US-10-916-940-60

US-10-916-947-287-55

US-09-747-287-56

US-09-747-287-241

US-09-747-287-241

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US-09-747-287-48
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Maximum Match 100%
Listing first 45 summaries
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Maximum
                                                                                  Run on:
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No.
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GENERAL INFORMATION:

APPLICANT: JOLY, ERRY

TITLE OF INVENTION: A BIOLUMINESCENCE RESONANCE ENERGY TRANSFER (BRET)

TITLE OF INVENTION: SYSTEM WITH BROAD SPECTRAL RESOLUTION BETWEEN DONOR AND

TITLE OF INVENTION: ACCEPTOR EMISSION WAVELENGTHS AND ITS USE

TITLE OF INVENTION: ACCEPTOR EMISSION WAVELENGTHS AND ITS USE

TITLE OF INVENTION: ACCEPTOR EMISSION WAVELENGTHS AND ITS USE

CURRENT PILING DATE: 1030-18-25

PRIOR APPLICATION NUMBER: CA 2,291,968

PRIOR APPLICATION NUMBER: CA 2,291,968

PRIOR PRIOR PELING DATE: 2000-08-02

PRIOR FILING DATE: 2000-08-02

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PATENTIN VET: 2.1

SEQ ID NO 4

LENGTH: 6

TYPE: PRI

CREANINGM: ATTIFICIAL SEQUENCE
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OTHER INFORMATION: Description of Artificial Sequence: Illustrative;
OTHER INFORMATION: peptide
US-10-168-447-4
                                           Sequence Seq
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US-09-747-287-55
US-09-747-287-55
US-09-874-350A-21
US-10-768-976-29
US-09-747-287-62
US-09-747-287-62
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US-09-747-287-63
US-09-747-287-63
US-09-747-287-63
US-09-747-287-228
US-09-747-287-228
US-09-747-287-232
US-09-747-287-232
US-09-747-287-232
US-09-747-287-232
US-09-747-287-232
US-09-747-287-232
US-09-747-287-232
US-09-874-350A-15
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FEATURE:
OTHER INFORMATION: Synthesized
                                                                                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
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Matches 5; Conservative
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 5; Conserv
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US-09-862-224-2
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Publication No. US20040241782A1
GENERAL INFORMATION:
APPLICANT: Evotec OAI AG
TITLE OF INVENTION: Methods and Means for the Detection of Enzyme-Catalyzed
TITLE OF INVENTION: Cleavage and Linking Reactions
FILE REPERENCE: P69029USO
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                                                                                                                                          ; OTHER INFORMATION: Synthetically generated peptide US-10-165-258-18
PRIOR APPLICATION NUMBER: US 60/296,378
PRIOR FILING DATE: 2001-06-06
NUMBER OF SEQ ID NOS: 24
SSCTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 18
LENGTH: 7
                                                                                                                  ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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Sequence 2, Application US/09862224

Sequence 2, Application US/09862224

Publication No. US20030186214A1

GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Yan, Xiongwei
APPLICANT: Yuan, Pau
TITLE OF INVENTION: PEPTIDE CONJUGATES AND FLUORESCENCE DETECTION METHODS FOR INTRACEI
TITLE OF INVENTION: CASPASE ASSAY
FILE REFERENCE: 4568US
FILE REFERENCE: 2001-05-21
NUMBER OF SEQ ID NOS: 3

NUMBER OF SEQ ID NOS: 3

LENGTH: 8

LENGTH: 8

LENGTH: 8
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APPLICANT: KOMORIYA, AKIRA
APPLICANT: KOMORIYA, BEVERLY S.
TITLE OF INVENTION: HOWO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
TITLE OF INVENTION: ACTIVITY IN BIOLOGICAL SAMPLES
FILE REPERENCE: 300-948600US
CURRENT APPLICATION NUMBER: US/09/747,287
CURRENT APPLICATION NUMBER: US 09/349,019
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1997-02-20
PRIOR PLICATION NUMBER: US08/802,981
PRIOR PLILING DATE: 1997-02-20
PRIOR PLILING DATE: 1997-02-20
PRIOR PLILING DATE: 2000-09-11
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CURRENT APPLICATION NUMBER: US/10/466,552A
CURRENT FILING DATE: 2003-07-25
PRIOR APPLICATION NUMBER: PCT/ED02/00845
PRIOR FILING DATE: 2002-01-28
PRIOR FILING DATE: 2001-01-26
NUMBER OF SEQ ID NOS: 3
SEQ ID NO 1
SEQ ID NO 1
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Sequence 65, Application US/11074473

Sequence 65, Application US/11074473

Publication No. US20050226839A1

GENERAL INFORMATION:
APPLICANT: Wang, Kneying
APPLICANT: Wang, Hong
TITLE OF INVENTION: Peptide-Based Conditioners and Colorants for Hair, Skin, and
TITLE OF INVENTION: Nails
FILE REFERENCE: CL2296 US NA
CURRENT PAPLICATION NUMBER: US/11/074,473

CURRENT FILING DATE: 2005-03-08

PRIOR FILING DATE: 2004-09-07

NUMBER OF SEQ ID NOS: 104

SOFTWARE: Patentin version 3.2

SEQ ID NO 65
                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Huang, Xueying
APPLICANT: Huang, Xueying
APPLICANT: Wang, Hong
APPLICANT: World
TITLE OF INVENTION: Nails
FILE REFERENCE: C12296 US NA
CURRENT APPLICATION NUMBER: US/10/935,642
CURRENT APPLICATION NOS: 104
SOFTWARE: PARENTE: 2004-09-07
NUMBER OF SEQ ID NOS: 104
SOFTWARE: PARENTIN Version 3.2
SEQ ID NO 65
LENGTH: 8
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100.0%; Score 27; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                           100.0%; Score 27; DB 4; Length 8; 100.0%; Pred. No. 1.7e+06;
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Pred. No. 1.7e+06;
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US-10-935-642-65
Sequence 65, Application US/10935642
Publication No. US20050050656A1
GENERAL INFORMATION:
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ORGANISM: Artificial Sequence
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ORGANISM: Artificial Sequence
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; LENGTH: 8
; TYPE: PRT
; ORGANISM: mammalian
US-10-341-979-4
                                                                                                              Query Match
Best Local Similarity
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US-11-074-473-65
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APPLICANT: PACKARD, BEVERLY S.
TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
TITLE OF INVENTION: HOMO-DOUBLY IN BIOLOGICAL SAMPLES
FILE REFERENCE: 300-948600US
CURRENT APPLICATION NUMBER: US/09/747,287
CURRENT APPLICATION NUMBER: US/349,019
FRIOR FILING DATE: 1999-09-10
FRIOR FILING DATE: 1997-02-20
FRIOR FILING DATE: 1997-02-20
FRIOR FILING DATE: 1997-09-11
FRIOR FILING DATE: 1900-09-11
NUMBER OF SEQ ID NOS: 242
SEQ ID NOS: 224
SEQ ID NO 236
                                                                                                                                   FEATURE:
OTHER INFORMATION: Synthetic (chemically synthesized) peptide. Artificial protease
102-09-747-287-235
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Hong Kong University of Science & Technology
APPLICANT: Clang, Donald Choy
TITLE OF INVENTION: GFP-BASED METHODS FOR DETECTING APOPTOSIS
FILE REFERENCE: 32144183-1
CURRENT APPLICATION WHERE: US/10/341,979
CURRENT FILING DATE: 2003-01-11
NUMBER OF SEQ ID NOS: 20
SOFTWARE: Patentin version 3.1
SEQ ID NO 4
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                                                                                                                                                                                                                                                    Length 8;
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Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0;
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Publication No. US20030207264A1
GENERAL INFORMATION:
  NUMBER OF SEQ ID NOS: 242
SOFTWARB: Patentin version 3.2
SEQ ID NO 235
LENGTH: 8
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ORGANISM: Artificial
                                                                                             TYPE: PRT ORGANISM: Artificial
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TITLE OF INVENTION: METHODS FOR SCREENING FOR TRANSDOMINANT INTRACELLULAR TITLE OF INVENTION: EFFECTOR PEPTIDES AND RNA MOLECULES FILE REFERENCE: A-64260-6/RMS/AMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 60. Application US/10096550
| Sequence 60. Application US/10096550
| Publication No. US20030170641A1
| GENERAL INFORMATION:
| APPLICANT: No. US20030170641A1an, Garry P
| APPLICANT: No. US20030170641A1an, Garry P
| TITLE OF INVENTION: PEPTIDES AND RNA MOLECULES
| TITLE OF INVENTION: PEPTIDES AND RNA MOLECULES
| TITLE OF INVENTION: NUMBER: US/10/096,550
| CURRENT APPLICATION NUMBER: US/10/096,550
| CURRENT APPLICATION NUMBER: 08/787,738
| PRIOR APPLICATION NUMBER: 08/789,108
| PRIOR FILING DATE: 1996-01-23
| PRIOR APPLICATION NUMBER: 08/589,911
| PRIOR APPLICATION NUMBER: 08/589,911
| PRIOR SEQ ID NOS: 97
| SOFTWARE: Patentin Ver: 2.0
| SEQ ID NO 60
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; OTHER INFORMATION: Description of Artificial Sequence: synthetic.
VS-10-096-550-60
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                                                                                               CURRENT APPLICATION NUMBER: US/09/916,940
CURRENT FILING DATE: 2001-07-27
PRIOR FILING DATE: 2001-07-27
PRIOR FILING DATE: 2001-11-28
PRIOR FILING DATE: 2000-11-28
PRIOR PLING DATE: 1997-11-03
PRIOR PLING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: US 08/589,109
PRIOR PILING DATE: 1996-01-23
PRIOR PILING DATE: 1997-01-23
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APPLICANT: No. US20020127564Alan, Garry P
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ORGANISM: Artificial Sequence
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Matches 5; Conservative
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6 GDEVD 10
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Sequence 8, Application US/11093873

Sequence 8, Application US/05022935A1

GENERAL INFORMATION:

APPLICANT: Huang, Xueying

APPLICANT: Kobos, Robert K.

APPLICANT: Xu, Gann

TITLE OF INVENTION: Peptide-Based Carbon Nanotube Hair Colorants and Their Use in TITLE OF INVENTION: Hair Coloring and Cosmetic Compositions

FILE REPRESENCE: CL2610

CURRENT APPLICATION NUMBER: US/11/093,873

CURRENT FILING DATE: 2005-03-30

NUMBER OF SEQ ID NOS: 8

SOFTWARE: Patentin version 3.3

SEQ ID NO 8

LENGTH: 8
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SOFTWARE: Patentin version 3.1
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US-09-916-940-60
'Sequence 60, Application US/09916940
'Patent No. US20020127564A1
'GENERAL INFORMATION:
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RESULT 15

US-10-314-614-60

SQUENCE 60, Application US/10934614

SUB-10-314-614-60

SQUENCE 60, Application US/10934614

SUBLICANT: No. US20050037415A1

APPLICANT: No. USACOSO037415A1

APPLICANT: No. USACOSO037415A1

APPLICANT: No. USACOSO037415A1

APPLICANT: No. USACOSO037415A1

APPLICANT: No. USACOSO03-10-10-10-10

FILES REPERRENCE: A-6-6-25-1 correction

CURRENT FILING DATE: 2004-09-03

PRIOR PILING DATE: 2002-03-12

PRIOR PELICATION NUMBER: US/10/994,614

CURRENT APPLICATION NUMBER: 08/787,738

PRIOR APPLICATION NUMBER: 08/889,108

PRIOR FILING DATE: 1996-01-23

PRIOR PELICATION NUMBER: 08/589,911

PRIOR APPLICATION NUMBER: 08/589,911

PRIOR PELICATION NUMBER: 08/589,911

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Search completed: December 27, 2005, 11:52:02 Job time : 93.5 secs

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01-DEC-2001 (TEMBLrel. 19, Created)
01-DEC-2003 (TEMBLrel. 19, Last sequence update)
01-OCT-2003 (TEMBLrel. 25, Last annotation update)
Poly(ADP-ribose) polymerase (Fragment).
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Nucleotide sequence and expression in Escherichia coli of the impurcay-3-methylglutaryl coenzyme A lyase gene of Pseudomonas mevaloni:",

J. Bacteriol. 171:6468-6472(1989).

EMBL; M31807; AAA25894.1; -; Genomic_DNA.

HSSP; P13702; 1QAX.

GO; GO:00040491; F:oxidoreductase activity; IEA.

GO; GO:0016491; F:oxidoreductase activity; IEA.

InterPro; IPR002202; HMG-COA_red.

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NUCLEOTIDE SEQUENCE.
Kang H.S., Park Y.J., Jung H.M., Jun D.Y., Huh T.L., Kim Y.H.;
Q7a180
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QQ9w95
QQ9w95
QQ4k107
Q72bj0
Q9hkm7
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07AA7A_STAAN
09995_STAAM
04Q860_LEIMA
04CL07_MOUSE
0772BJQ_DESCH
KAD6_THEAC
DID4_YEAST
Y194_AQUAE
0978Y3_THEVO
0858B19_CRYSA
RS15_HALMA
085494_HELFE
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MEDLINE=90078086; PubMed=2687236;
Anderson D.H., Rodwell V.W.;
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RP NUCLECTIDE SEQUENCE:

RA ANGERON D. H., Rodwell V. W.; RT Nucleotide sequence and expres RT Nucleotide Sequence and expression RC GO: 0004420; F: hydroxymethyl DR GO: GO:0004420; F: hydroxymethyl DR GO: GO:0004420; F: biosynthesis DR Pfam; PF00368; HMG-COA_red; T. FT NON TER NON TER AA, 4925 MW; 97
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Kanekor T., Nakamura Y., Sato S., Asamizu E., Kato T., Sasamoto S., Watanabe A., Idesawa K., Ishikawa A., Kawashima K., Kimura T., Kishida Y., Kiyokawa C., Kohara M., Matsumoto M., Matsumo A., Mochizuki Y., Nakayama S., Nakazaki N., Shimpo S., Sugimoto M., Takeuchi C., Yamada M., Tabata S.;

Takeuchi C., Yamada M., Tabata S.;

"Complete genome structure of the nitrogen-fixing symbiotic bacterium Mesorhizobium loti.";

DNA Res. 7:31-338(2000).

EMBL: BA0000131; BAB54707.1; -; Genomic_DNA.

InterPro; IPR008162; Pyrophosphatase.

PROSITE; PS00387; PPASE; UNKNOWN_1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bacteria, Actinobacteria, Actinobacteridae, Actinomycetales,
Corynebacterineae, Corynebacteriaceae, Corynebacterium.
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STRAIN=YS-314 / AJ 12310 / DSM 44549 / JCM 11189;
STRAIN=Z2723752; PubMed=12840036; DOI=10.1101/gr.1285603;
Nishio Y., Nakamura Y., Kawarabayasi Y., Usuda Y., Kimura E. Sugimoto S., Matsui K., Yamagishi A., Kikuchi H., Ikeo K., Gojobori T.;
                                Bacteria, Proteobacteria, Alphaproteobacteria, Rhizobiales,
Phyllobacteriaceae, Mesorhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 27; DB 2; Length 62; 100.0%; Pred. No. 3.4e+02; cive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 efficiens.";
Genome Res. 13:1572-1579(2003).
EMBL, BA000015; BAC17629.1; -; Genomic_DNA.
Complete procteome; Hypothetical prottein.
SEQUENCE 65 AA; 7245 MW; 5FCE714480188C72 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                           Complete proteome; Plasmid.
SEQUENCE 62 AA; 6855 MW; CC089E57239F833D CRC64;
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Last annotation update)
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100.0%; Pred. No. 3.6e+02;
tive 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Created)
                                                                                                                                      STRAIN=MAFF303099;
MEDLINE=21082930; PubMed=11214968;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAR-2003 (TrEMBLrel. 23, 01-MAR-2003 (TrEMBLrel. 23, Hypothetical protein. OrderedLocusNames=CE0819;
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01-MAR-2003 (TrEMBLrel. 23,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5; Conservative
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Matches 5; Conserv
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                                                                             NCBI_TaxID=381;
                                                                                                                   NUCLEOTIDE
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AC Q77
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Eukaryota, Viridapolica cultivar-group).
Spermatophyta, Viridapolicaphyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehkhartoideae; Oryzeae; Oryza.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sasaki T., Matsumoto T., Katayose Y.;
"Oryza sativa nipponbare(GA3) genomic DNA, chromosome 7, BAC
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                                                                                                                                                                                                                                                                100.0%; Score 27; DB 2; Length 49; 100.0%; Pred. No. 2.7e+02;
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
EMBL, AE401218; AAL02174.1; -; mRNA.
GO; GO:0005634; C:nucleus; IEA.
GO; GO:0003677; F:DNA binding; IEA.
InterPro. 1FR001510; Znf PolyADPpol.
PFan; PF00645; Zf-PARP; I.
ProDom; PD004675; Znf PolyADPpol; 1.
PROSITE; PS50064; PARP_ZN_FINGER_2; 1.
NON TER
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01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
110-MAY-2005 (TrEMBLrel. 30, Last annotation update)
Name=P0617C02,128; Synonyms=B1317D11.123;
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Hypothetical protein.
SEQUENCE 57 AA; 6286 MW; 581BE65ECAE6E787 CRC64;
                                                                                                                                                                                                                        49 AA; 5300 MW; 68F91BA7DABDF4A5 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
Last sequence update)
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                                                                                                                                                                                                                                                                                                         0; Mismatches
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EMBL; AP006186; BAD31949.1; -; Genomic_DNA.
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OrderedLocusNames=ms19339;
Rhizobium loti (Mesorhizobium loti).
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0981K2;
01-007-2001 (TEMBLEE]. 18,
01-007-2001 (TEMBLEE]. 26,
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QGLH38 ORYSA PRELIMINARY;
QGLH38;
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''^a 5; Conserve
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GDEVD 30
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QBPX54_METMA PRELIMINARY;
Q8PX54;
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QSWTM4;
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NUCLEOTIDE SEQUENCE.
STRAIN=R;
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SEOUENCE 84 AA;
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Tang S.L., Nuttall S., Ngui K., Fisher C., Lopez P., Dyall-Smith M.;
"HP2: a double-stranded DNA tailed haloarchaeal virus with a mosaic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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EMBL, AF222006, AAL54955.1; -; Genomic_DNA.
Hypothetical protein.
SEQUENCE 70 AA; 7583 MW; 64BCED165C9C761A CRC64;
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10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
Hypothetical protein.
Corynebacterium glutamicum (Brevibacterium flavum).
Bacteria, Actinobacteria, Actinobacteridae, Actinomycetales,
Corynebacterineae, Corynebacteriaceae, Corynebacterium.
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                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 27; DB 2; Length 70; 100.0%; Pred. No. 3.9e+02; Live 0; Mismatches 0; Indels
                                                                                                                                                                     PubMed=15090523; DOI=10.1128/JB.186.9.2810-2817.2004;
Tang S.-L., Nuttall S., Dyall-Smith M.;
"Haloviruses HF1 and HF2: Evidence for a Recent and Large
                                                                                                                                                                                                                                       Recombination Event.";
J. Bacteriol. 186:2810-2817(2004).
EMBL, AY190604; AAO61332.1; -; Genomic_DNA.
Hypothetical protein.
SEQUENCE 70 AA; 7583 MW; 64BCED165C9C761A CRC64;
01-OCT-2003 (TrEMBLrel. 25, Last sequence update) 01-OCT-2003 (TrEMBLrel. 25, Last annotation update) Hypothetical protein.
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                                                                           Viruses; unclassified viruses; Haloviruses.
NCBI_TaxID=222645;
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NCBI_TaxID=33771;
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QSKRI3;
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Q8V6SO;
                                                                                                                                                                                                                                                                                                                                                                                                             5; Conservative
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                                                                  Halovirus HF1.
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STRAINE-GOBJ / GOJ / ATCC BAA-199 / DSM 3647 / OCM 88;
MEDLINE-22120827; PubMed=12125824;
MEDLINE-22120827; PubMed=12125824;
Martinez-Arias R., Henne A., Haresch A., Baeumer S., Jacobi C.,
Brueggemann H., Lienard T., Christmann A., Boemecke M., Steckel S.,
Brueggemann H., Lienard T., Christmann A., Boemecke M., Steckel S.,
Brueggemann H., Lienard T., Christmann A., Boemecke M., Steckel S.,
Fritz H.-J., Gottschalk G.,
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transfer between Bacteria and Archaea."
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EMBL; AE013370; AAM31064.1; -; Genomic_DNA.
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"Large-Scale Engineering of the Corpynebacterium glutamicum Genome.";
Appl. Environ. Microbiol. 71:3369-3372 (2005).
Appl. BAD84070.1; -; Genomic_DNA.
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25-0CT-2004 (TrEMBLrel. 28, Last sequence update)
25-0CT-2004 (TrEMBLrel. 28, Last sequence update)
25-0CT-2004 (TrEMBLrel. 28, Last annotation update)
25-0CT-2004 (TrEMBLrel. 28, Last annotation update)
14ypothetical protein.
OrderedLocusNames=lpl2500;
16gionella proteobacteria; Gammaproteobacteria; Legionellales;
16gionellaceae; Legionella.
NCBI_TaxIb=297245;
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Archaea; Euryarchaeota; Methanomicrobia; Methanosarcinales;
Methanosarcinaceae; Methanosarcina.
                                                                                                                                                                                                                                  100.0%; Score 27; DB 2; Length 78; 100.0%; Pred. No. 4.3e+02; tive 0; Mismatches 0; Indels
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                                                                                                                                     Hypothetical protein.
SEQUENCE 78 AA; 8315 MW; D9EC323EB05D638E CRC64;
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PubMed=15467720; DOI=10.1038/ng1447;
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Gaps

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RESULT 11

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Chien M., Morozova I., Shi S., Sheng H., Chen J., Gomez S.M., Asamani G., Hill K., Nuara J., Feder M., Rineer J., Greenberg J.J., Steshenco V., Park S.H., Zhao B., Teplitskaya E., Edwards J.R., Pampou S., Georghiou A., Chou I.-C., Iannuccilli W., Ulz M.E., Kim D.H., Geringer-Sameth A., Goldsberry C., Morozov P., Fischer S.G., Segal G., Qu X., Rzhetsky A., Zhang P., Cayanis B., De Jong P.J., Ju J., Kalachikov S., Shuman H.A., Russo J.J.;
"The genomic sequence of the accidental pathogen Legionella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=93146391; PubMed=1490612; DOI=10.1016/0378-1097(92)90042-M; Wren B.W., Colby S.M., Cubberley R.R., Pallen M.J.; Wren B.W., Colby S.M., Cubberley R.R., Pallen M.J.; Degenerate PCR primers for the amplification of fragments from genes encoding response regulators from a range of pathogenic bacteria."; FEMS Microbiol. Lett. 78:287-291(1992).

GO; GO:0003677; F:DNA binding; IEA.

GO; GO:000156; F:Wwo-component response regulator activity; IEA.

GO; GO:000160; P:two-component signal transduction system (p. . .; IE
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Enterobacteriaceae, Escherichia.
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Complete proteome; Hypothetical protein.
SEQUENCE 84 AA; 9418 MW; BBFP63D0BF6B5731 CRC64;
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01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Adaptive response regulator PHOP (Fragment).
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Pfam; PF00072; Response_reg; I.
ProDom; PD000039; Response_reg; 1.
SMART; SM00448; REC; 1.
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07P003;
01-MAR-2004 (TrEMBLrel. 26, Las
01-MAR-2004 (TrEMBLrel. 26, Las
01-MAR-2004 (TrEMBLrel. 26, Las
RNSANGP0000010025 (Fragment).
ORFNAmes=ENSANGG00000000535;
Anopheles gambiae str. PEST.
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01-MAY-2000 (TrEMBLrel. 13,
01-MAY-2000 (TrEMBLrel. 13,
01-OCT-2003 (TrEMBLrel_25,
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Pubmed=1546720; DOI=10.1038/ng1447;
Cazalet C., Rusniok C., Brueggemann H., Zidane N., Magnier A., Ma L., Tichit M., Jarraud S., Bouchier C., Vandenesch F., Kunst F.,
Etlenne J., Glaser P., Buchrieeer C.;
"Evidence in the Legionella pneumophila genome for exploitation of host cell functions and high genome plasticity.";
Nat. Genet. 36:1165-1173(204).
EMBL; CR628336; CAH13783.1; -; Genomic_DNA.
LegioList; hpp2630; CAPISTOSON;
Complete proteome; Hypothetical protein.
SEQUENCE 84 AA; 9418 MW; BBFF63DOBF6B5731 CRC64;
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Cazalet C., Rusniok C., Brueggemann H., Zidane N., Magnier A., Ma L. Tichit M., Jarraud S., Bouchier C., Vandenesch F., Kunst F., Etichit M., Claser P., Buchrieser C.; Steinne J., Claser P., Buchrieser C.; Isvidence in the Legionella pneumophila genome for exploitation of host cell functions and high genome plasticity."; Nat. Genet. 36:116-1173 (2004).

EMBL, CR628337; CAH16740.1; -; Genomic_DNA.

LegioList; lpl2500; -. Genomic_DNA.

SEQUENCE 84 AA; 9418 MW; BBFF63D0BF6B5731 CRC64;
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25-0CT-2004 (TrEMBLrel. 28, Created)
25-0CT-2004 (TrEMBLrel. 28, Last sequence update)
25-0CT-2004 (TrEMBLrel. 28, Last annotation update)
27-0CT-2004 (TrEMBLRel. 28, Last annotation update)
28-0CT-2004 (TrEMBLRel. 28, Last annotation update)
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OrderedLocusNames=lpp2630;
Legionella pneumophila (strain Paris).
Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales;
Legionellaceae; Legionella.
NCBI_TaxID=297246;
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Legionellaceae; Legionella.
NCBL_TaxID=272624;
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PubMed=15448271; DOI=10.1126/science.1099776;
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QSZSE1 LEGPH
ID QSZSE1 LEGPH PRELIMINARY;
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QSXIW3;
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Best Local Similarity
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GDEVD 43
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NUCLEOTIDE
 MEDLINE-20196006; Pubmed=10731132; DOI=10.1126/science.287.5461.2185; Adams M.D., Celniker S.E., Holt R.A., Bvans C.A., Gocayne J.D., Amanatides P.G., Scherer S.E., Li Pw., Hoskins R.A., Galle R.F., George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X., Brandon R.C., Rogers Y.-H.C., Blazel R.G., Champen M., Pfeiffer B.D., Abril J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D., Abril J.F., Agbayani A., Barxendale J., Bayaktaroglu L., Beasley E.M., Bellow R.W., Benos P.V., Berman B.P., Bhandari D., Bolshakov S., Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P., Randris K.C., Busam D.A., Butler H., Caddeu E., Center A., Chandra I., Rack Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., Charler R., Deig Z., Mays A.D., Dew I., Dietz S.M., Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., Abrin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W., Abril K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W., Abril Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
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                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Culicidae;
Anophelinae; Anopheles.
                                                                                                                                                                                                                                                            GO; GO:0005634; C:nucleus; IEA.
GO; GO:0005732; C:small nucleolar ribonucleoprotein complex; IEA.
GO; GO:0006397; P:mRNA processing; IEA.
InterPro; IPR006649; snNNP.
InterPro; IPR001163; snRNP.Sm.
                                                                                                                                                                   The Anophales gambiae Sequence Committee,
Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.
-1- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CG10418-PA (GM14851p).
ORFNames=CG10418, CG10418;
Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa, Arthropoda; Hexapoda; Insecta; Pterygota;
                                                                                                                                                                                                                                                                                                                                                                                               Length 94;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                     'Anopheles gambiae re-annotation.";
Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE 94 AA; 10606 MW; 006D6B57067E2873 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 27; DB 2; L 100.0%; Pred. No. 5.2e+02;
                                                                                                                                                                                                                        preliminary data.
EMBL; AAAB01008900; EAA09471.2; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         95 AA
                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                        The Anopheles gambiae Sequence Committee;
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QOVTW6;
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ses 5; Conserv
                                      NCBI_TaxID=180454;
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Harris N.L., Harvey D.A., Heiman T.J., Hernandez J.R., Houck J.,
Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
Lasko P., Lei Y., Levitsky A.A., Li J.H., Li Z., Liang Y., Lin X.,
Martei B., McIntosh T.C., McLeod M.P., McDeherson D.,
Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
Nelson D.K., Nelson K.A., Nixon K., Nusskern D.R., Pacle D.L.,
Reinert K., Remington K.A., Nixon K., Nusskern D.R., Pacle D.M.,
Reinert K., Salden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
Shue B.C., Siden-Kiamos I., Simpson M., Stupski M.P., Smith T.,
Shue B.C., Wasaarman D.A., Weinstock G.M., Weissenbach J.,
Nang Z.-Y., Wasaarman D.A., Weinstock G.M., Weissenbach J.,
Welly K. R., Zaveri J.S., Zaha M., Zhang S., Zao Q., Zhang L.,
A cibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
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Kaminker J.S., Bergman C.M., Kronmiller B., Carlson J.W., Svirskas R., Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin G.M., Ashburner M., Celniker S.E.,
"The transposable elements of the Drosophila melanogaster euchromatin:
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MEDLINE=22426069; PubMed=12537572;
Mista S., Crosby M.A., Mungall C.J.S., Matthews B.B., Campbell K.S.,
Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
Bettencourt B.R., Celniker S.E., de Grey A.D.N.J., Drysdale R.A.,
Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.G.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
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Celniker S., Carlson J., Wan K., Pfeiffer B., Frise B., George R.,
Hoskins R., Stapleton M., Pacleb J., Park S., Svirskas R., Smith B.,
Yu C., Rubin G.;
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Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
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Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a genomics perspective.";
Genome Biol. 3:RESEARCH0084.1-RESEARCH0084.20(2002).
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Patel S., Phouanenavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
Celniker S.;
Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.

- INTERACTION:
CGW0087:CG2021; NbExp=1; IntAct=EBI-150361, EBI-140047;
CGW0087:CG4279; NbExp=1; IntAct=EBI-150361, EBI-130074;
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CGW00862; AAL48484.1; -; Genomic_DNA.
CGC314; JaR495929.1; -; Genomic_DNA.
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CGC314; JaR49929.1; -; Genomic_DNA.
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CGC314; JAR49999.1; -; Genomic_DNA.
CGCG90056889.1; -; Genomic_DNA.
CGCG9005689.1; -; G
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100.0%; Score 27; DB 2; Length 95;
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Matches 5; Conservative 0; Mismatches 0; Indels
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Search completed: December 27, 2005, 11:48:16 Job time : 124.667 secs

1 GDEVD 5 ||||| 74 GDEVD 78

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Query Match
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1 GDEVD 5
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226, Appl
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17, Appl
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22, Appl
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Sequence 188, App
Sequence 235, App
Sequence 236, App
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                                                      December 27, 2005, 11:36:08; Search time 27.0833 Seconds (without alignments) 15.263 Million cell updates/sec
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Sequence 3
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6: /cgn2 6/ptodata/1/iaa/RE COMB.pep:*
       GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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US-09-747-287A-235
US-09-747-287A-235
US-09-394-019C-189
US-08-65-643A-3
US-08-65-664-1
US-08-789-333F-60
US-08-789-333F-60
US-09-789-733F-60
US-09-780-60
US-09-916-940-60
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US-09-917-287A-25
US-09-747-287A-25
US-09-747-287A-26
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US-09-394-019C-266
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Maximum Match 100%
Listing first 45 summaries
                                        protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 2000000000
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Perfect score:
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Gaps

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FEATURE:
COTHER INFORMATION: Synthetic (chemically synthesized) peptide. Artificial protease
COTHER INFORMATION: substrate.
US-09-747-2874-236
                                                                     FEATURE:
COTHER INFORMATION: Synthetic (chemically synthesized) peptide. Artificial protease;
COTHER INFORMATION: substrate.
US-09-747-287A-235
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APPLICANT: Romoriya, Akira
APPLICANT: Romoriya, Akira
APPLICANT: Packard, Beverly
TITLE OF INVENTION: COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL
TITLE OF INVENTION: SAMPLES AND METHODS OF USE THEREOF
FILE REFERENCE: 300-903820US
CURRENT APPLICATION NUMBER: US/09/394,019C
CURRENT APPLICATION NUMBER: PCT/US98/00300
PRIOR FILING DATE: 1998-02-20
PRIOR FILING DATE: 1997-02-20
NUMBER OF SEQ ID NOS: 405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: PACKARD, BYTERLY S.

TITLE OF INVENTION: HOWO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
TITLE OF INVENTION: HOWO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
TITLE OF INVENTION: ACTIVITY IN BIOLOGICAL SAMPLES
FILE REPERRENCE: 300-94660US
CURRENT FILING DATE: 100-12-22
CURRENT FILING DATE: 1090-10-10
PRIOR PILING DATE: 1999-09-10
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1999-09-11
NUMBER OF SEQ ID NOS: 246
SOFTWARE: PATCHING DATE: 2000-09-11
NUMBER OF SEQ ID NOS: 246
SOFTWARE: PATCHIN VERSION 3.3
SEQ ID NO 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 100.0%; Score 27; DB 2; Length 8; Best Local Similarity 100.0%; Pred. No. 4.6e+05; Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                          Length 8;
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                                                                                                                                                                                                             100.0%; Score 27; DB 2; I 100.0%; Pred. No. 4.6e+05;
                                                                                                                                                                                                                                                                     0; Mismatches
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; Sequence 189, Application US/09394019C
; Patent No. 6936687
; Patent INFORMATION:
; APPLICANT: Oncoimmunin, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 236, Application US/09747287A No. 69393868 Patent No. 69393868 SHERAL INFORMATION: APPLICANT: KOMORIYA, AKIRA
                                                                                                                                                                                                                                Best Local Similarity 100.
Matches 5; Conservative
                        TYPE: PRT ORGANISM: Artificial
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ORGANISM: Artificial
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US-09-747-287A-236
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LENGTH: 8
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                                                    Sequence 188, Application US/08802981

Sequence 188, Application US/08802981

Batent No. 6037137

GENERAL INFORMATION:

APPLICANT: Kommority, Akira

APPLICANT: Packard, Beverly S.

TITLE OF INVENTION: Compositions for the Detection of Enzyme

TITLE OF INVENTION: Activity in Biological Samples and Methods of Use Thereof

NUMBER OF SEQUENCES: 231

CORRESPONDENCE ADDRESS:

ADDRESSE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, Eighth Floor

CITY: San Francisco

STATE: California
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APPLICANT: KONGRIYA, AKIRA
APPLICANT: KONGRIYA, BEVERLY S.
TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS
FILE REFERENCE: 300-948600US
CURRENT APPLICATION NUMBER: US/09/747,287A
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: US/09/349,019
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1997-02-20
PRIOR FILING DATE: 1997-02-20
PRIOR FILING DATE: 2000-09-11
RIOR FILING DATE: 2000-09-11
RIOR FILING DATE: 2000-09-11
NUMBER OF SEQ ID NOS: 246
SOFTWARE: PATENTIN VETSION 3.3
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APPLICATION NUMBER: US/08/802,981 FILING DATE: 20-FEB-1997 CLASSIFICATION: 435 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
REFERENCE DOCKET NUMBER: 016865-000300US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
INFORMATION FOR SEC ID NO: 188:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 235, Application US/09747287A Patent No. 6893868 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 94111-3834
COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
COMPUTER: SYSTEM: PC-DOS/MS-DOS
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Best Local Similarity 100.
Matches 5; Conservative
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1 GDEVD 5
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US-09-747-287A-235
                                                 JS-08-802-981-188
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Gaps

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TYPE: PRT
ORGANISM: Artificial Sequence
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Facture No. 6288037

GENERAL INFORMATION:

APPLICANT: Talanian, Robert V.

APPLICANT: GHAYUK, Tariq

APPLICANT: GHAYUK, Tariq

TITLE OF INVENTION: SUBSTRATES AND INHIBITORS FOR CYSTEINE PROTEASE ICH-1

FILE REFERENCE: BSI-049CFCPA

CURRENT FILING DATE: 1996-06-18

FRIOR PAPLICATION NUMBER: US/08/665,643A

CURRENT FILING DATE: 1996-01-29

NUMBER OF SEQ ID NOS: 89

SOFTWARE: PALENTIN VEY: 2.0

SEQ ID NO 3

LENGTH: 12

LENGTH: 12

TYPE: PRT
                                                                                                                           GTHER INFORMATION: Synthetic peptide substrate
FEATURE:
NAME/FEY: misc feature
CHHER INFORMATION: Artificial/Unknown = central protease recognition domain
US-09-394-019C-189
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APPLICANT: Shuey, David

APPLICANT: Onlinet, Blaine

TITLE OF INVENTION: Methods and Reagents for Identifying Inhibitors of

TITLE OF INVENTION: Protectlysis of Membrane-Associated Proteins

TITLE REFERENCE: 6-00

CURRENT APPLICATION NUMBER: US/09/522,666

CURRENT FILING DATE: 2000-03-10

NUMBER OF SEQ ID NOS: 32

SOFTWARE: Patentin Ver. 2.0
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Patent No. 6333167
SOFTWARE: Patentin version 3.2
SEQ ID NO 189
LENGTH: 8
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Best Local Similarity 100.0
Matches 5; Conservative
                                                                                  ORGANISM: Artificial
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2 GDEVD 6
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GENERAL INFORMATION:
APPLICANT: No. 6153380an, Garry P
APPLICANT: No. 6153380an, Garry P
APPLICANT: Rothenbergy S. M.
TITLE OF INVENTION: METHODS FOR SCREENING FOR TRANSDOMINANT INTRACELLULAR
TITLE OF INVENTION: EFFECTOR PEPTIDES AND RNA MOLECULES
FILE REFERENCE: A642601DJBRMSDSS
CURRENT APPLICATION NUMBER: 1097-01-23
PRIOR FILING DATE: 1996-01-23
PRIOR FILING DATE: 1996-01-23
PRIOR FILING DATE: 1996-01-23
NUMBER OF SEQ ID NOS: 102
SEQ ID NO 60
SEQ ID NO 60
LENGTH: 15
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APPLICANT: No. 6455247an, Garry P.
APPLICANT: No. 6455247an, Garry P.
APPLICANT: No. 6455247an, Garry P.
APPLICANT: Rothenburg, Michael S.
TITLE OF INVENTION: METHODS FOR SCREENING FOR TRANSDOMINANT EFFECTOR
TITLE OF INVENTION: DEPTIDES AND RNA MOLECULES
FILE REFERENCE: A-64259-1 Correction
CURRENT PELING DATE: 2001-09-18
PRIOR PLILING DATE: 1996-01-23
PRIOR PLILING DATE: 1996-01-23
PRIOR FILING DATE: 1996-01-23
PRIOR FILING DATE: 1996-01-23
NUMBER OF SEQ ID NOS: 97
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 60
LENGTH: 15
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US-08-789-333F-60
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FEATURE:
CHER INFORMATION: Description of Artificial Sequence: Bequence;
CHER INFORMATION: encoding g-s-g linkers and caspase-3 cleavage
CHER INFORMATION: sites
US-09-522-666-11
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100.0%; Score 27; DB 2; Length 15;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 0; Indels
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US-08-789-333F-60
Sequence 60, Application US/08789333F;
Patent No. 6153380
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US-08-787-738B-60
psquence 60, Application US/0878738B
Patent No. 6455247
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ORGANISM: Artificial Sequence
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Best Local Similarity 100.0
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amino acid
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US-08-802-981-48
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APPLICANT: No. 6737241an, Garry P
APPLICANT: No. 6737241an, Garry P
TITLE OF INVENTION:
FILE REFERENCE: A-64260-6/RMS/AMS
CURRENT APPLICATION NUMBER: US/09/916,940
CURRENT FILING DATE: 2001-07-27
PRIOR APPLICATION NUMBER: US 09/727,715
PRIOR APPLICATION NUMBER: US 08/563,368
PRIOR FILING DATE: 1997-11-03
PRIOR PRILING DATE: 1997-11-03
PRIOR PLING DATE: 1996-01-23
PRIOR FILING DATE: 1996-01-23
PRIOR FILING DATE: 1997-01-23
PRIOR FILING DATE: 1997-01-23
PRIOR FILING DATE: 1997-01-23
PRIOR SPLING DATE: 1997-01-23
PRIOR SPLING DATE: 1997-01-23
PRIOR FILING DATE: 1997-01-23
PRIOR SPLING DATE: 1997-01-23
PRIOR APPLICATION NUMBER: US 08/789,738
PRIOR FILING DATE: 1997-01-23
PRIOR APPLICATION NUMBER: US 08/789,738
PRIOR FILING DATE: 1997-01-23
PRIOR FILING DATE: 1997-01-23
PRIOR APPLICATION NUMBER: US 08/789,738
PRIOR FILING DATE: 1997-01-23
PRIOR APPLICATION NUMBER: US 08/789,738
PRIOR FILING DATE: 1997-01-23
PRIOR FILING DATE: 1997-01-23
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US-09-916-940-60
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Patent No. 6833245
GENERAL INFORMATION:
APPLICANT: No. 6833245an, Garry P
APPLICANT: No. 6833245an, Garry P
APPLICANT: No. 6833245an, Garry P
APPLICANT: No. 683245an, Garry P
APPLICANT: No. 683245an, Garry P
APPLICANT: No. 683245an, Garry P
APPLICANT: No. 684259-1 correction
CURRENT APPLICATION NUMBER: US/10/096,550
CURRENT FILING DATE: 2002-03-12
PRIOR APPLICATION NUMBER: 08/797,738
PRIOR APPLICATION NUMBER: 08/589,108
                                                                         ; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic.
US-08-787-738B-60
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Patent No. 6737241
TYPE: PRT
ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 5; Conservative
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/note= "Xaa = 9-fluorenylmethoxycarbonyl (Fmoc) group attached to the alpha-amino group of Lys"
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Sequence 48 pplication US/08802981
Sequence 48 pplication US/08802981
Sequence 48 pplication:
APPLICANT: Komoriya, Akira
APPLICANT: Compositions for the Detection of Enzyme
TITLE OF INVENTION: Activity in Biological Samples and Methods of Use Thereof
NUMBER OF SEQUENCES: 231
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
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; OTHER INFORMATION: Description of Artificial Sequence: synthetic.
US-10-096-550-60
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MEDIUM TYPE: Rloppy disk
COMPUTER: ISM PC COMPATIBLE
COMPUTER: ISM PC COMPATIBLE
COMPUTER: ISM PC COMPATIBLE
COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/802,981
FILING DATE: 20-FEB-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 016865-000300US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEPAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 48:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAMES KEY: Modified-site
LOCATION: 1
OTHER INFORMATION: /product= "OTHER"
OTHER INFORMATION: /note= "Xaa = 9-f:
OTHER INFORMATION: to the alpha-amin
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US-08-802-981-48
PRIOR FILING DATE: 1996-01-23
PRIOR APPLICATION WUMBER: 08/589,911
PRIOR FILING DATE: 1996-01-23
NUMBER OF SEQ ID NOS: 97
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 60
LENGTH: 15
                                                                                                                                                                                      TYPE: PRT
ORGANISM: Artificial Sequence
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Best Local Similarity 100.
Matches 5, Conservative
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California
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RESULT 15

US-09-747-287A-52

US-09-747-287A-52

Sequence 52, Application US/09747287A

Patent No. 689366

GENERAL INFORMATION:
APPLICANT: KOMORIYA, AKIRA

TITLE OF INVENTION: HOWO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME

TITLE OF INVENTION: ACTIVITY IN BIOLOGICAL SAMPLES

TITLE OF INVENTION: ACTIVITY IN BIOLOGICAL SAMPLES

TITLE OF INVENTION: ACTIVITY IN BIOLOGICAL SAMPLES

FILE REFERENCE: 300-948600US

CURRENT FILING DATE: 200-12-22

PRIOR APPLICATION NUMBER: US 09/349,019

PRIOR PELING DATE: 1999-09-10

PRIOR APPLICATION NUMBER: US08/802,981

PRIOR PELING DATE: 1999-09-10

PRIOR APPLICATION NUMBER: PCT/US00/24882

PRIOR PELING DATE: 1090-09-11

NUMBER OF SEQ ID NOS: 246

SEQ ID NO S: 246

LENGTH: 16
                                                                                                                                                                                                                                                                                                                         JOHNSTON TO SERVING THE DESTRUCTION OF ENZYME STATICANT: PACKARD, BEVERLY S.

JAPPLICANT: PACKARD, BEVERLY S.

JITLE OF INVENTION: HOWO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME TITLE OF INVENTION: HOWO-DOUBLY INVENTION: WOMBER: US/09/747,287A

CURRENT APPLICATION NUMBER: US/09/747,287A

CURRENT FILING DATE: 1999-09-10

PRIOR APPLICATION NUMBER: US/09/349,019

PRIOR FILING DATE: 1999-09-10

PRIOR FILING DATE: 1999-09-11

NUMBER OF SEQ ID NOS: 246

SEQ ID NOS: 246

LENGTH: 16
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NAMB/KEY: misc_feature
LOCATION: (4)...(4)
OTHER INFORMATION: Xaa is episilon-aminocaproic acid
FEATURE:
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OTHER INFORMATION: Synthetic peptide
                                                                                                                                                                                                                  Sequence 47, Application US/09747287A Parent No. 6893868 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial
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ORGANISM: Artificial
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OTHER INFORMATION: /note= "Xaa = 9-fluorenylmethoxycarbonyl (Fmoc) group attache OTHER INFORMATION: to the alph-amino and 5'-carboxytetramethylrhodamine attached OTHER INFORMATION: the epsilon-amino group of Lys"
FEATURE:
NAME/KEY: Modified-site
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/note= "Xaa = 5'-carboxytetramethylrhodamine attached to the
epsilon-amino group of Lys"
                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 172, Application US/08802981
Patent No. 6037137
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Fackard, Beverly S.
TITLE OF INVENTION: Compositions for the Detection of Enzyme
TITLE OF INVENTION: Activity in Biological Samples and Methods of Use Thereof
NUMBER OF SEQUENCES: 231
CORRESPONDENCE ADDRESS:
ADDRESSE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
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100.0%; Score 27; DB 2; Length 16; 100.0%; Pred. No. 21;
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                                                                           0; Indels
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/802,981
FILING DATE: 20-FEB-1997
CLASSIFICATION: 435
ATTONREY/AGENT INFORMATION:
NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
REFERENCE/DOCKET NUMBER: 38,498
REFERENCE/OFCET NUMBER: 31,498
REFERENCE/OFCET NUMBER
                                                                           0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
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Best Local Similarity 100.
Matches 5; Conservative
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COMPUTER READABLE FORM:
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COTHER INFORMATION:
OTHER INFORMATION:
COTHER INFORMATION:
US-08-802-981-172
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us-09-473-619d-1.rpr

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                                                                                                                                  December 27, 2005, 11:36:08; Search time 19.1667 Seconds (without alignments) 25.100 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                           283416 seqs, 96216763 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
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Maximum Match 100%
Listing first 45 summaries
                                                                                          OM protein - protein search, using sw model
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B43714
E89817
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length: 2000000000
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Match Length
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2: pir2:*
3: pir3:*
!: pir4:*
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Maximum DB seq
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Perfect score:
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                                                                                                                                                                                                                                                                              Sequence:
                                                                                                                                                                                                                                                                                                                                                                                           Searched:
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                                                                                                                                       Run on:
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No.
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A; Experimental source: strain N315

|||||| GDEVD 57

1 GDEVD 5

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A;Status: preliminary A;Molecule type: DNA A;Residues: 1-133 <KUR>

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C;Species: Aquifex aeolicus
C;Date: 08-May-1998 #sequence_revision 08-May-1998 #text_change 09-Jul-2004
C;Accesion: C70318
R;Deckert, G.; Warren, P.V.; Gaasterland, T.; Young, W.G.; Lenox, A.L.; Graham, D.E.; Ove
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 1-151 -860Y>
A;Cross-references: UNIPARC:UPI000013B6A4; EMBL:Z28002; NID:g485988; PIDN:CAA81834.1; PII
A;Experimental source: strain S288C
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A;Cross-references: UNIPROT:066575; UNIPARC:UPI00000562BA; GB:AE000677; NID:g2982900; PII
A;Experimental source: strain VF5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: UNIPROT:P36108; UNIPARC:UPI000013B6A4; EMBL:228002; NID:g485988; PIDP A;Experimental source: strain S288C
R;Experimental source: strain S288C
R;Boyer, J.; Pascolo, S.; Richard, G.F.; Ghazvini, M.; Colleaux, L.; Thierry, A.; Monnies submitted to the Protein Sequence Database, March 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Title: The complete genome of the hyperthermophilic bacterium Aquifex aeolicus. A;Reference number: A70300; MUID:98196666; PMID:9537320
A;Accession: C70318
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C; Species: Saccharomyces cerevisiae
C; Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 09-Jul-2004
C; Accession: 837812; 837813
R; Duesterhoeft, A; Moestl, D.; Poehlmann, R.; Philippsen, P.
A; Reference to the Protein Sequence Database, March 1994
                                                                                                                                                                                                                                                                                                                        Gaps
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                                                                                                                                                                                                                                                         DB 1; Length 135; 94;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hypothetical protein YKL002w - yeast (Saccharomyces cerevisiae)
                             A,Molecule type: protein
A,Residues: 1-135 «KMA»
A,Cross-references: UNIPROT:P21509; UNIPARC:UPI0000135089
A,Note: the source is designated as Halobacterium marismortui
C,Superfamily: Haloarcula ribosomal protein HS13
C,Keywords: protein biosynthesis; ribosome
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A;Gene: aq 194
C;Superfamily: Aquifex aeolicus hypothetical protein aq 194
                                                                                                                                                                                                                                                                                                                           0; Mismatches
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                                                                                                                                                                                                                                                            100.0%; Score 27; 100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                       Best Local Similarity
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A; Molecule type: DNA
A; Residues: 1-151 < DUE>
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74 GDEVD 78
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A; Accession: S11593
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C;Species: Pseudomonas aeruginosa
C;Accession: A55580
R;Kwon, D.H.; Lu, C.D.; Walthall, D.A.; Brown, T.M.; Houghton, J.E.; Abdelal, A.T.
A;Title: Structure and regulation of the carAB operon in Pseudomonas aeruginosa and Pseu
A;Reference number: A55580; MUID:94222830; PMID:8169201
                                                                                                                                                        C,Accession: E89817
R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Ogud
R, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K.;
C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Haysshi, H.; Hiramatsu, K.
Lancet 357, 1225-1240, 2001
A;Fitle: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Residues: 1-134 <KWO>
A;Cross-references: UNIPROT:P38103; UNIPARC:UPI000016FC7F; GB:U04992; NID:g451649; PIDN:
A;Note: authors translated the codon CAG for residue 129 as Glu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A,Cross-references: UNIPROT: Q99W95; UNIPARC: UP10000054639; GB: BA000018; PID: g13700398;
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                                                               hypothetical protein SA0466 [imported] - Staphylococcus aureus (strain N315)
C;Species: Staphylococcus aureus
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Haloarcula marismortui
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 09-Jul-2004
C;Accession: S11593
R;Kimura, M.; Arndt, E.; Hatakeyama, T.; Hatakeyama, T.; Kimura, J.
Can. J. Microbiol. 35, 195-199, 1989
A;Title: Ribosomal proteins in halobacteria.
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C;Superfamily: polyribonucleotide nucleotidyltransferase homolog yabR
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C;Keywords: diaminopimelate-lysine biosynthesis; NAD; oxidoreductase
F;22-26/Region: substrate binding
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100.0%; Score 27; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 92;
Matches 5; Conservative 0; Mismatches 0; Indels
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N;Alternate names: ribosomal protein HS13
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Local Similarity nes 5; Conserv

Query Match

A;Gene: dapB

A; Status: preliminary A; Molecule type: DNA

GDEVD 15

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RESULT 5

1 GDEVD 5

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Probable formate acetyltransferase activating enzyme (EC 1.97.1.4) - Methanobacterium the NyAlternate names: formate C-acetyltransferase activating enzyme; pyruvate formate-lyase C;Species: Methanobacterium thermoautotrophicum c;Species: Methanobacterium thermoautotrophicum c;Date: 15-Jan-1999 #sequence_revision 15-Jan-1999 #text_change 09-Jul-2004 C;Accession: F69078
C;Accession: F69078
R;Smith, Dr.R; Doucette-Stamm, L.A; Deloughery, C; Lee, H; Dubois, J; Aldredge, T; F; Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, N.; A; S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N.
J. Bacteriol. 179, 7135-7155, 1997
A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: functi A;Reference number: A69000; MUID:98037514; PMID:9371463
A;Accession: F69078
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A;Cross-references: UNIPROT:027623; UNIPARC:UPI0000665A2; GB:AE000918; GB:AE000666; NID:
A;Experimental source: strain Delta H
C;Genetics:
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C;Superfamily: Methanococcus probable pyruvate formate-lyase activating enzyme
C;Keywords: iron: metalloprotein; oxidoreductase
F;28,33,36/Binding site: iron (Cys) #status predicted
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A;Cross-references: UNIPROT:049555; UNIPARC:UPI0000A5AA5; EMBL:ALO21960
A;Experimental source: cultivar Columbia; BAC clone F7J7
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C;Superfamily: Arabidopsis thaliana hypothetical protein F7J7.80
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Local Similarity 100.0%; Pred. No. 1.6e+02;
les 5; Conservative 0; Mismatches 0;
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45 GDEVD 49
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C;Species: Haloarcula marismortui
C;Species: Haloarcula marismortui
C;Species: J-Dec-1988 #sequence_revision 31-Mar-1992 #text_change 09-Jul-2004
C;Accession. A31906; A23602
R;Arndt, E.; Kimura, M.
J;Biol. Chem. 263, 16063-16068, 1988
A;Title: Molecular cloning and nucleotide sequence of the gene for the ribosomal protein A;Reference number: A92677; MUID:89034064; PMID:3182783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:P05762; UNIPARC:UP1000016F7CF; GB:J04062; NID:g148809; PIDN: R;Arndt, E.; Breithaupt, G.; Kimura, M. BESS Lett. 194, 227-234, 1986
A;Title: The complete amino acid sequence of ribosomal protein H-S11 from the archaebact A;Reference number: A23602
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R;Mansouri, K.; Piepersberg, W.
Mol. Gen. Genet. 228, 459-469, 1991
A;Title: Genetics of streptomycin production in Streptomyces griseus: nucleotide sequence A;Reference number: S17775; MUID:91375432; PMID:1654502
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A,Molecule type: protein
A,Residues: 2-25, 'A', 27-156 <ARN2>
A,Cross-references: UNIPARC:UPI0000173A3B
A,Note: the source is given as Halobacterium marismortui
C,Superfamily: rat ribosomal protein S13; eubacterial ribosomal protein S15 homology
C,Keywords: protein biosynthesis; ribosome
F;2-156/Product: ribosomal protein S13.eR #status experimental <MAT>
F;86-151/Domain: eubacterial ribosomal protein S15 homology <ES15>
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C.Date: 16-Sep-1992 #sequence_revision 16-Sep-1992 #text_change 09-Jul-2004
                                                                              Gaps
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       Length 154;
                                                                                                                                                                                                                                                                                                                                                                                                                    ribosomal protein S15 [validated] - Haloarcula marismortui
; Score 27; DB 2; L; Pred. No. 1.1e+02; 0; Mismatches 0;
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Query Match
Best Local Similarity 100.0%;
Matches 5; Conservative 0
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Best Local Similarity 100.0
Matches 5; Conservative
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A;Residues: 1-156 <ARN>
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GDEVD 68
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M.J.; Bri K.; Lim,

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A;Molecule type: DNA
A;Rosaidues: 1-268 <STO>
A;Cross-references: UNIPROT:P38103; UNIPARC:UPI0000128E8C; GB:AE004889; GB:AE004091; NID:
A;Experimental source: strain PAO1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathoca; A;Reference number: A82950; MUID:20437337; PMID:10984043
                                                                                                                                                                                                                                                                                                              dipydrodipicolinate reductase PA4759 [imported] - Pseudomonas aeruginosa (strain PAO1)
C;Species: Pseudomonas aeruginosa
C;Species: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
C;Accession: H33051
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Edman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Polger, K.R.; Kas, A.; Larbig, K.; Lin
Nature 406, 959-964, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match

100.0%; Score 27; DB 2; Length 268;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
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A;Gene: dapB; PA4759
C;Superfamily: dihydrodipicolinate reductase
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                                                                                                                61 GDEVD 65
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                                  1 GDEVD 5
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A; Status: preliminary
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Cipacies: Archaeoglobus fullgidus
Cipacies: Archaeoglobus fullgidus
Cipacies: O5-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 16-Aug-2004
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C;Superfamily: Molybdopterin biosynthesis protein moeB
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A;Residues: 1-257 cWIL>
A;Cross-references: UNIPROT:O45871; UNIPARC:UPI000081671; EMBL:282060; PIDN:CAB04886.1;
A;Experimental source: clone T27F6
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C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 31-Dec-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                              A,Accession: T46121
A,Status: preliminary
A,Molecule type: DNA
A,Residues: 1-237 <RIE>
A,Cross-references: UNIPROT:Q9SMUG, UNIPARC:UPI00000AA900; EMBL:AL132967
A,Experimental source: cultivar Columbia; BAC clone T2J13
C,Genetics:
A,Map position: 3
A,Note: T2J13.70
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100.0%; Score 27; DB 2; Length 267;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels
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Best Local Similarity 100.0%; Pred. No. 1.8e+02;
Matches 5; Conservative 0; Mismatches 0;
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A;Accession: T25387
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
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R. Dobson, R.
submitted to the EMBL Data Library, November 1996
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A; Introns: 98/1; 148/2; 213/3
A; Reference number: Z23023
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Best Local Similarity
Matches 5; Conserv
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A,Gene: CESP:T27F6.7
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December 27, 2005, 11:36:08; Search time 111.25 Seconds (without alignments) 19.747 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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1: genesedro198
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	Aaw51892 Peptide u	Abp57518 Different		Aay54043 Peptide s		Aaw51893 Peptide u	Aao18998 Caspase-3	Aaw82031 Fluorogen	Aaw82030 Fluorogen	Aag73266 Protease	Abu60376 Protease	Abu60473 Central p		Abb99790 Peptide s	Adm65819 Apoptosis	Ady55660 Caspase 3	Ado05347 Caspase-3	Aea39602 Caspase-3	Aaw29954 Cysteine	Aaw51894 Sequence	Aau75878 Caspase-3	Abp60485 Caspase 3	Abb99777 Amino aci	Aar34533 Beta-hexo
SUMMARIES	ΩI	AAW51892	ABP57518	ABU63411	AAY54043	ABP57512	AAW51893	AA018998	AAW82031	AAW82030	AAG73266	ABU60376	ABU60473	ABU60370	ABB99790	ADM65819	ADY55660	AD005347	AEA39602	AAW29954	AAW51894	AAU75878	ABP60485	ABB99777	AAR34533
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	& Query Match	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Score	27	27	. 27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
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498 Caspase a 228 Fusion pr 825 Apoptosis 118 Fas-media 972 Transdomi 1492 Synthetic 1594 Library i 1006 Caspase r 1004 Caspase r 1007 Transdomi 607 Transdomi 607 Conjugate 237 Fluorogen 257 Protease 258 Protease 168 Protease	
Aay77498 Aab51228 Aaw291185 Aab45972 Abg98492 Abg98492 Abg984906 Ada29949 Adx2904 Adx2904 Adx2904 Adx2904 Adx3967 Aaw82237 Aag73305 Aag73305 Aag73307 Aag73308	
AAY77498 AAB51228 AAB56825 AAR29118 AAB14056 AAB14056 AAB14056 AAB14006 AAB14006 AAB28944 AAB28944 AAB28944 AAB2237 AAG73305 AAG73305 AAG733078 AAG73308 AAG73078 AAG73078	
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ALIGNMENTS

Immunogen; apoptosis; screen; inhibitor; stimulator; antibody; PARP; poly-ADP-ribose polymerase; antibody. Peptide useful for diagnosing diseases that involve apoptosis. Bhat RV; Siman R, Bozyczkocoyne D, Meyer SL, AAW51892 standard; peptide; 5 AA. 96US-0030961P. 97US-00967625. 97WO-US020214. (first entry) (CEPH-) CEPHALON INC. WPI; 1998-298113/26. WO9821590-A1. 13-NOV-1997; 15-NOV-1996; 12-NOV-1997; 21-SEP-1998 22-MAY-1998. AAW51892; Mammalia. RESULT 1 AAW51892

Peptide(s) containing epitope(s) characteristic of peptide(s) formed during apoptosis - useful for diagnosing diseases that involve apoptosis and to screen for inhibitors or stimulators of apoptosis. Claim 1; Page 14; 40pp; English.

The invention relates to peptides that contain the sequences AAW51892-3. Also claimed are: (1) antibodies that bind specifically to an epitope on a peptide produced by apoptotic cells; (2) a method for identifying inhibitors or stimulators of apoptosis by measuring the effect of a test compound on amount of antibody bound to cell or tissue, and (3) kits for detecting peptides produced by apoptotic cells. Antibodies are used in immunosassys to detect and quantify apoptosis, particularly for diagnosis of apoptosis-associated conditions, e.g. chronic neurodegeneration, cancer, sepsis, trauma to head or spine, hypoxia, anoxia, ischaemia, lesions and exposure to toxins, or susceptibility to such a condition

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ABU63411 standard; peptide; 5 AA.

RESULT 3 ABU63411 ABU63411;

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The present invention describes a method (MI) for analysing cleavage of a polymer. MI comprises: (a) providing a sample of the polymer on one side of the polymer molecules having been labeled at a position on one side of the potential cleavage site with a first isotopic label and a portion of the potential cleavage site with a second isotopic label; (b) incubating the sample under conditions suitable for cleavage at the potential cleavage site; and (c) analysing the mass(es) of any cleaved fragments by mass spectrometry and thereby determining whether and/or where cleavage has taken place. MI is useful for analysing cleavage of a polymer, where the polymer is a linear polymer, and comprises a peptide or protein. Methods from the present invention can be used in discovering or protein. Methods from the present invention can be used in discovering or protein. Methods from the human genome. The methods are also useful to identify the sequence origin, and in screening methods to identify new substrates for enzymes, in positional peptide scanning claaning claavage of inbraries, in in vivo/ex vivo/in vitro peptide, and in assaying methods for oligonucleotide or peptide sequencing and in measuring differential collypurcleotides and set of collypurcleotides, and for menitoring the cleavage of polypeptides or polynucleotides, and for determining optimal polymer substrates. ABB57505 to ABB57505 to ABB57505 repersent peptides used in the exemplification of the present invention
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                                                                                                                                                                                                                                                                                                                                                                                                              dass spectrometry; polymer; analysis; cleavage; substrate specificity;
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                                  100.0%; Score 27; DB 2; Length 5; 100.0%; Pred. No. 2e+06; tive 0; Mismatches 0; Indels
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                Query Match
Best Local Similarity 100...
5; Conservative
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Sequence 5 AA;
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The invention detecting cleavage of entire specific binding substances from surface of a colourimetric resonant reflectance optical biosensor (CROB), where specific binding substances are immobilised on the surface of the biosensor at distinct locations, comprising detecting CROB peak wavelength value (PWV) of the distinct locations, applying cleaving molecule(s) to the locations, detecting a CROB PWV of the locations, and comparing the PWVs. Also included an except of inhibition activity of one or more molecules against enzyme or binding partners that effect or bind molecules which cleave specific binding substances (which are immobilised on a surface of a CROB), detecting a change in a cell growth pattern (by growing cells on CROB, detecting a change in a cell growth reflectance optical PWV, applying a test reagent to the cells, detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Detecting cleavage of one or more entire specific binding substances e.g. nucleic acids from surface of colorimetric resonant reflectance optical biosensor, by detecting peak wavelength value on biosensor's surface.
                                                                                                      Caspase-3; colourimetric resonant reflectance optical biosensor; CROB; peak wavelength value; PWV; cell morphology; cell adhesion; cell proliferation.
                                                                                                                                                                                                                                                                                                    /note= "Asp is covalently linked to a p-nitroanilide
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                                                                                                                                                                                                                                                      'note= "Gly is NHS-Gly"
                                                                                                                                                                                                       Location/Qualifiers
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                                                                                                                                                                                                                                       label= OTHER
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15-AUG-2001; 2001US-00930352.
28-JAN-2002; 2002US-00058626.
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2001US-0283314P.
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2002US-00180374.
2002US-00180647.
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                                                                           Caspase-3 substrate peptide
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                                              (first entry)
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                                                                                                                                                                           Synthetic
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Pien H;
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Length 5;

Score 27; DB 6; Pred. No. 2e+06;

100.0%;

Query Match Best Local Similarity

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difference between the colourimetria resonant reflectance optical PWV before and after application of the test reagent thereby indicating a change in a cell growth pattern and detecting the binding of molecules released from cells grown in a semi-permeable internal sleeve held in celeased from cells grown in a semi-permeable internal sleeve held in contact with CROB. The method of the invention is useful for detecting contact with CROB. The method of the invention is useful for detecting of a CROB. The specific binding substances from a surface of a CROB. The specific binding substances from a surface of a CROB. The specific binding substances from a surface of a CROB. The specific binding substances from a surface of a CROB. The specific binding substances aboutions, solutions, solutions, solutions, solutions, solutions containing compounds from a combinatorial chemical library, antigen, polyclonal antibody, single chain antibody (scPv), cell, virus, bacterial, polymer and biological samples. The other methods are useful for: (a) detecting inhibition activity of one or more care useful for: (a) detecting inhibition activity of one or more molecules which cleave specific binding substances; (b) detecting a change in a cell growth pattern, such as cell morphology, cell adhesion, cell migration, cell proliferation and cell death; and detecting binding of molecules released from cells grown in a semi-permeable internal sleeve held in contact with CROB. The present sequence is a caspase-3 substrate peptide used to demonstrate the biosensor's ability to detect
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enhanced yellow mutant green fluorescent protein; EYFP; caspase-3; bioluminescence resonance energy transfer system; BRET system; blotuminescence protein; fluorophore; protein interaction; drug discovery; drug screening; gene function; toxicology; genotoxicity; Renilla luciferase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Novel energy transfer systems, used for assaying protein interactions, enayme activities and the concentration of analytes or signaling molecules.
colourimetric resonant reflectance optical PWV and discerning a
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JOHNSON C H.
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Best Local Similarity
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                                The present sequence represents the caspase=3 site, which upon induction of apoptosis, should recognise and cleave the linker region of a fusion protein of Renilla luciferase (RLUC) and enhanced yellow mutant green fluorescent protein (EYFP). This separatesw RLUC and thereby decreases the BRET ratio over time. The fusion protein of RLUC and EYFP exemplifies the system of the invention. The specification describes a bioluminescence resonance energy transfer (BRET) system which comprises a bioluminescence protein (BP) that has luciferase activity, an acceptor fluorophore that can accept the energy from the BP when associated, in the presence of the substrate, a modulator that influences the proximity or orientation of the BP and the fluorophore, and a substrate to activate the luciferase activity of BP. The BRET system allows the detection of
                                                                                                                                                                                                                                                                                                                              They can also be used for drug discovery, drug screening, to detect changes in protein-protein interaction, in functional genomics to detecrmine the cellular function of a gene by determining its binding partner, in toxicology to measure the presence and concentration of toxic compounds, in diagnosis and in genotoxicity to measure the effect of a storic compound on genome stability. In particular, it is useful for assaying protein interactions, enzyme activities and the concentration of analytes or signaling molecules in cells or in solution
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                                                                                                                                                                                                                                                                                         protein interactions without requiring exciting illumination. The BRET systems can be used for screening for second messengers and analytes.
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Example 12; Page 55; 142pp; English.
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ABP57512
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the polymer molecules having been labeled at a position on one side of the potential cleavage site with a first isotopic label and a portion of the potential cleavage site with a footopic label and a portion of side of the potential cleavage site with a second isotopic label; (b) incubating the sample under conditions suitable for cleavage at the potential cleavage site; and (c) analysing the mass(es) of any cleaved c fragments by mass spectrometry and thereby determining whether and/or where cleavage has taken place. Mi is useful for analysing cleavage of a polymer, where the polymer is a linear polymer, and comprises a peptide or protein. Methods from the present invention can be used in discovering new or improved synthetic substrates for both known and unknown enzymes, c. e.g. enzymes identified from the human genome. The methods are also useful to identify the sequence origin, and in screening methods to libraries in in vivo/er wire origin, and in assaving methods in libraries.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          libraries, in in vivo/ex vivo/in vitro peptide, and in assaying methods for oligonucleotide or peptide sequencing and in measuring differential protein expression. The methods are useful for monitoring the cleavage of polypeptides or polymucleotides, and for determining optimal polymer substrates. ABP57505 to ABP57605 represent peptides used in the
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97US-00967625.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best_Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 GDEVD 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 6 AA;
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12-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-SEP-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW51893;
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The invention relates to peptides that contain the sequences AAW51892-3. Also claimed are: (1) antibodies that bind specifically to an epicope on a peptide produced by apoptotic cells; (2) a method for identifying inhibitors or stimulators of apoptosis by measuring the effect of a test compound on amount of antibody bound to cell or tissue, and (3) kits for

Claim 1; Page 14; 40pp; English.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cleavage reactions, comprising preparing a modular compound, including a reporter module Y, as substrate, incubating this with enzyme to produce at least two cleavage products, and determining enzyme activity by detecting the Y-containing products by a method that is sensitive to molecular weight. The method is used for testing specificity and activity
              immunoassays to detect and quantify apoptosis, particularly for diagnosis of apoptosis-associated conditions, e.g. chronic neurodegeneration, cancer, sepsis, trauma to head or spine, hypoxia, anoxia, ischaemia, lesions and exposure to toxins, or susceptibility to such a condition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1. .7
hotte= "optionally modified to form maleimide-peptide 1-5
-TAMRA or DNA-maleimide-peptide1-5-TAMRA"
detecting peptides produced by apoptotic cells. Antibodies are used in
                                                                                                                                                                                                                                                                                                                                                                                                            Enzymatic cleavage detection; linkage reaction detection, molar mass; molecular weight; pharmaceutical screening; contamination.
                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Detecting enzymatic cleavage and coupling reactions, useful e.g. in screening for pharmaceutical enzyme inhibitors, based on modular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention relates to the detection of enzyme-catalysed
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                                                                                                                     100.0%; Score 27; DB 2; Length 7; 100.0%; Pred. No. 2e+06;
                                                                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'note= "optionally modified by OtBu"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               note= "optionally modified by OtBu"
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                                                                                                                                                       0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                     Caspase-3 specific substrate peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Jungmann J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 27; 68pp; German.
                                                                                                                                                                                                                                                                                            AA018998 standard; peptide; 7 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-JAN-2002; 2002WO-EP000845.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-JAN-2001; 2001EP-00101869
                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                       5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note=
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                                                                                                                                     Best Local Similarity
                                                                                                                                                                                   1 GDEVD 5
                                                                                                                                                                                                        3 GDEVD 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lopez-Calle E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200259352-A2
                                                                                            Sequence 7 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                                                       07-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          substrates.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic
                                                                                                                                                                                                                                                                                                                         AA018998
                                                                                                                          Query Match
                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                RESULT 7
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Protease activity, fluorphore; detection; fluorogenic; cellular uptake; conformation change.
                                                                                                                                                              Fluorogenic protease indicator protease binding peptide #8.
                                                                                AAW82030 standard; peptide; 8 AA.
                                                                                                                                       18-FEB-1999 (first entry)
              1 GDEVD
                                                                                                                                                                                                                                                           409837226-A1
                                                                                                                                                                                                                                  Synthetic.
                                                                                                            AAW82030;
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                                                     RESULT 9
                                                                    AAW82030
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAW82023-W82240 are peptides used in the construction of a fluorogenic composition which is used for the detection of protease activity in biological samples. The products can be used for the detection of conformation changes in nucleic acids, oligosaccharides, proteins, peptides, lipids, phopholipids, glycolipids, polysaccharides, steroids or polymers. In addition, attachment of a hydrophobic group to an molecule can be used to enhance uptake by cells. The composition is protease, F1, F2 peptide comprising a protease binding site for the protease, F1, F2 peptides = fluorophores where F1 is attached to the amino acid and F2 is attached to the carboxyl terminal amino acid and F2 is attached to the carboxyl terminal amino acid and S1, S2 peptides = when present, are peptide spacers where S1, when present, is attached to the amino terminal acid, and S2, when present, is attached to the amino acid and S2, when
of enzymes or their modulators, identifying modulators and/or substrates, screening for pharmaceuticals (e.g. caspase inhibitors), diagnosis, and determining contamination in chemical or biological samples. The present sequence is a peptide substrate used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New fluorogenic compositions - containing 2 fluorophores separated by a peptide comprising a protease binding site, used for detecting protease
                                                                                                                                                                                                                                                                                                                                                                      activity; fluorphore; detection; fluorogenic; cellular uptake;
                                                                                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                           Fluorogenic protease indicator protease binding peptide #9
                                                                                                         100.0%; Score 27; DB 5; Length 7; 100.0%; Pred. No. 2e+06; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                             AAW82031 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 2; Page 77; 90pp; English.
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Best Local Similarity 100..
Fig. Conservative
                                                                                                            Query Match
Best Local Similarity 100.
Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ONCO-) ONCOIMMUNIN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              activity in samples.
                                                                                                                                                                                                                                                                                                                                                                                      conformation change.
                                                                                                                                                                 1 GDEVD 5
                                                                                                                                                                                         1 GDEVD 5
                                                                                  Sequence 7 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-1997;
                                                                                                                                                                                                                                                                                                                  18-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-AUG-1998
                                                         invention
                                                                                                                                                                                                                                                                                         AAW82031;
                                                                                                                                                                                                                                                                                                                                                                         Protease
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                                                                                                                                                                                                                                                                                                                                                                               New fluorogenic compositions - containing 2 fluorophores separated by a peptide comprising a protease binding site, used for detecting protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         h similarity 100.0%; Score 27; DB 2; Length 8; Similarity 100.0%; Pred. No. 2e+06; 5; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAG73266 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; Page 77; 90pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Protease indicator peptide #21.
                                                              98WO-US003000.
                                                                                                                             97US-00802981
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                                                                                                                                                                                            ONCO-) ONCOIMMUNIN INC
                                                                                                                                                                                                                                                                                                                       WPI; 1998-467579/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           activity in samples.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches 5; Conserv
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                                                              20-FEB-1998;
                                                                                                                             20-FEB-1997;
                                                                                                                                                                                                                                                           Komoriya A,
27-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAG73266;
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Gaps

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100.0%; Score 27; DB 2; Length 8; 100.0%; Pred. No. 2e+06; tive 0; Mismatches 0; Indels

1 GDEVD 5

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This invention describes a novel indicator composition (referred as homocouply labeled compositions) comprising a polypeptide backbone or a mucleic acid backbone joining two chromophores of the same species whereby the chromophores form an H-dimer resulting in quenching of the mucleic acid backbone joining two chromophores of the achange in the Absorbance indicates that the fluorescence of or a change in absorbance indicates that the indicator is useful for detecting the activity of a procease, where an increase in fluorescence or a change in absorbance indicates that the indicator is useful for detecting the activity of a procease, where an increase in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicator is attended to a solid support inside a mammalian, yeast or insect call. The composition bears a hydrophobic group, 9-fluoreneacetyl group, and 9-fluoreneacetyl group, benzyloxycarbonyl, Xanthyl (Xan), Trityl (Trt), 4-carboxylic group, 9-fluoreneacetyl group, 1-carboxylic group, 1-carboxylic group, 9-flooreneacetyl group, 1-carboxylic group, 9-flooreneacetyl group, 1-carboxylic group, 1-c
                                                                                 Indicator composition comprising polypeptide or nucleic acid backbone joining two same chromophores resulting in quenching of fluorescence of/change in absorbance of chromophores, useful for detecting protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protease; indicator; chromophore; H-dimer; fluorescence; absorbance; nuclease; screening; fluorophore; substrate cleavage.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 27; DB 5; Length 8; ilarity 100.0%; Pred. No. 2e+06; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Central protease recognition domain SEQ ID 206.
                                                                                                                                                                                              Disclosure, Page 30, 97pp, English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABU60473 standard; peptide; 8 AA.
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Packard BS, Komoriya A;
                                           WPI; 2002-698548/75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-APR-2003
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                                                                                                                                                     activity
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Matches
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ID ABU6
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AC ABU6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention describes fluorogenic compositions which can be used for the detection of protease activity. This can be useful as an indicator of viral infection, cancer metastasis, haemophilia, emphysema, thrombosis and arthritis. The fluorogenic compositions comprise a peptide, a peptide spacer and a donor and an acceptor fluorophore. The epstide is cleaved by a protease and the fluorophores can then be detected. The present sequence is one of the peptides described in the exemplification of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                        New fluorogenic compositions whose fluorescence level increases in the presence of active proteases, useful for detecting and localizing protease activity in biological samples, particularly in frozen tissue
                    use detection; peptide cleavage; enzyme activity; fluorogenic; infection; cancer metastasis; emphysema; arthritis; thrombosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protease; indicator; chromophore; H-dimer; fluorescence; absorbance; nuclease; screening; fluorophore; substrate cleavage.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 14; Page 65; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABU60376 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-DEC-2000; 2000US-00747287.
                                                                                                                                                                                                                                          11-SEP-2000; 2000WO-US024882.
                                                                                                                                                                                                                                                                                     10-SEP-1999; 99US-00394019
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                                                                                                                                                                                                                                                                                                                              ONCO-) ONCOIMMUNIN INC
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-389573/41.
                      Protease detection;
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                                                             haemophilia.
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                                                                                                                                                                                                                                                                                                                                                                         Komoriya A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-AUG-2002
                                                                                                                                                                                                 15-MAR-2001
                                                                                                          Synthetic
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Gaps

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This invention describes a novel indicator composition (referred as homocoubly labeled compositions) comprising a polypeptide backbone or a nucleic acid backbone joining two chromophores of the same species whereby the chromophores form an H-dimer resulting in quenching of the fluorescence of or a change in the absorbance of the chromophore, a decrease in fluorescence or a change in absorbance of the chromophore, a clark in a change in absorbance indicates that the fromescence or a change in absorbance indicates that the fromescence or a change in absorbance indicates that the processe in fluorescence or a change in absorbance indicates that the processe in classes the polypeptide backbone. The indicator is attached to a solid support inside a mammalian, yease or insect cell. The composition bears a hydrosphobic group, benzylic group, 9-floreneacatopaylic group, 1-carboxylic group, benzyloxycarboxyli Xanthyl (Xan), Trityl (Trt), 4-carboxylic group, benzyloxycarboxylixyl (Mmt), 4-methoxy-2.3, 6-trimethyl-carboxylic group, benzyloxycarboxylic group, and 9-floreneacatopayloxycarboxylidmethoxybenzhydryl (Mt), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethyl-carboxylic group, benzyloxycarboxylixyl (Mmt), 4-methoxy-2.3, 6-trimethyl-carboxylic group, benzyloxycarboxylic group, and p-floreneacatopayloxyl (Mts), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethoxybenzhydryl (Mts), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethyl-carboxylic group, benzenesulphonyl (Mts), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethoxybenzhydryl (Mts), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethoxybenzhydryl (Mts), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethoxybenzhydryl (Mts), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethoxyl (Mts), Mesitylene -2-sulphonyl (Mts), 4.4, 6-trimethoxyl (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protesse indicators utilise high efficiency fluorophores and are able to achieve a high degree of quenching while providing a strong signal when the quench is released by cleavage of the peptide substrate. The high signal allows detection of very low levels of protease activity. Thus the fluorogenic protease indicators are particularly well suited for in situ detection of protease activity. ABU60357-ABU60477 represent peptides use to illustrate the method described in the disclosure of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                   Indicator composition comprising polypeptide or nucleic acid backbone joining two same chromophores resulting in quenching of fluorescence of/change in absorbance of chromophores, useful for detecting protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 14; Page 73; 97pp; English
                                                                                                                                                                                                            22-DEC-2000; 2000US-00747287.
                                                                                                                                                          21-DEC-2001; 2001WO-US049781.
                                                                                                                                                                                                                                                                                                                     Packard BS, Komoriya A;
                                                                                                                                                                                                                                                              (ONCO-) ONCOIMMUNIN INC
                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-698548/75.
                                                    WO200261038-A2.
                                                                                                        08-AUG-2002
  Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           activity
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Sequence 8 AA;

Gaps ; 0 100.0%; Score 27; DB 5; Length 8; 100.0%; Pred. No. 2e+06; cive 0; Mismatches 0; Indels 5; Conservative Best Local Similarity Matches 5; Conserv Query Match

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ABU60370 standard; peptide; 8 AA. ABU60370

ABU60370;

29-APR-2003 (first entry)

Protease binding peptide motif SEQ ID 14.

Protease; indicator; chromophore; H-dimer; fluorescence; absorbance; nuclease; screening; fluorophore; substrate cleavage.

Synthetic.

WO200261038-A2.

08-AUG-2002.

21-DEC-2001; 2001WO-US049781.

22-DEC-2000; 2000US-00747287.

(ONCO-) ONCOIMMUNIN INC.

Packard BS, Komoriya A;

WPI; 2002-698548/75

Indicator composition comprising polypeptide or nucleic acid backbone joining two same chromophores resulting in quenching of fluorescence of/change in absorbance of chromophores, useful for detecting protease

Disclosure, Page 29; 97pp; English.

This invention describes a novel indicator composition (referred as homocoubly labeled compositions) comprising a polypeptide backbone or a nucleic acid backbone joining two chromophores of the same species whereby the chromophores in the absorbance of the chromophore, a nucleic acid backbone joining two chromophores of the chromophore, a chromophore, a chromophore, a chromophore, a change in the absorbance of the chromophore, a change in the absorbance of the chromophore, a change in absorbance indicates that the indicator is useful for detecting the activity of a protease, where an increase in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicates that the protease in fluorescence or a change in absorbance indicates that the protease in fluorencarboxylic group, benzyloxycarbonyl, Xanthyl (Xan), Trityl (Trit), 4.

Carboxylic group, benzyloxycarbonyl, Xanthyl (Xan), Trityl (Trit), 4.

Carboxylic group, benzyloxycarbonyl, Xanthyl (Xan), Trityl (Trit), 4.

Carboxylic group, benzyloxycarbonyl, Xanthyl (Xan), 4.4.

Carboxylic group, Masitylene-2-sulphonyl (Mts), 4.4.

Carboxylic group, benzyloxycarbonyl, Xanthyl (Xan), 4.4.

Carboxylic group, benzyloxycarbonyl, Xanthyl (Xan), Trityl (Trit), 4.

Carboxylic group, benzyloxycarbonyl, Xanthyl (Mts), 4.4.

Cymph, embryo, or whole animal, or cell suspension benzyles alonger of

GDEVD 5 1 GDEVD 5

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Sequence 8 AA;
                                                                                                                 Unidentified
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           ADM65819;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New peptide conjugate useful for intracellular and bead-based assays with fluorescence detection comprises polypeptides covalently attached to a donor dye and an acceptor dye.
                                                                                                                                                                                                                                                                                      /note= "when this residue is isoleucine, this peptide is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence represents a substrate for caspase enzymes. It is used to produce peptide conjugates of the invention. The specification describes a peptide conjugate, comprising a polypeptide covalently attached to a donor dye through a first linkage and to an acceptor dye through a second linkage. The donor dye and the acceptor dye are of a formula given in the specification; The peptide conjugate is useful for detecting caspase activity, in intracellular and bead-based assays with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                         Gaps
                                                                                                                                                                                                                         Substrate; caspase; peptide conjugate; donor dye; acceptor dye.
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                  100.0%; Score 27; DB 5; Length 8; llarity 100.0%; Pred. No. 2e+06; Conservative 0; Mismatches 0; Indels
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                                                                                                                                                                                                     Peptide substrate for caspase enzyme
                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                 claimed (Claim 5)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 3; Page 32; 62pp; English.
                                                                                                                                       ABB99790 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                             Yuan PM;
                                                                                                                                                                                                                                                                                                                                                                15-MAY-2002; 2002WO-US015713
                                                                                                                                                                                                                                                                                                                                                                                   21-MAY-2001; 2001US-00862224
                                                                                                                                                                                (first entry)
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Best Local Similarity
Matches 5; Conserv
                              Local Similarity
hes 5; Conser
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 Sequence 8 AA;
                                                                                                                                                                                                                                                                     Key
Modified-site
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                                                                                                                                                                                24-MAR-2003
                                                                                                                                                           ABB99790;
                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                             Yan X,
                                  Best Loc
Matches
                                                                                                                   RESULT 14
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RESULT 15 ADM65819 ID ADM65819 standard; peptide; 8 AA.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to a novel fluorescent protein construct to detect caspase or protease activated apoptosis, which comprises a donor fluorescent protein, an acceptor fluorescent protein and a peptide linker comprising a substrate sequence of a caspase or a protease linking the donor fluorescent protein and the acceptor fluorescent protein. The invention allows for highly sensitive yet simple assay for detecting early stages of apoptosis. The present sequence is that of a peptide which is related to the assay of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fluorescent protein construct useful for detecting caspase or protease activated apoptosis, having donor and acceptor fluorescent protein linked by peptide linker with substrate sequence of caspase or protease.
                                                                                                                                                      fluorescent protein construct; caspase; protease; apoptosis; donor fluorescent protein; acceptor fluorescent protein; peptide linker; substrate sequence; apoptosis assay.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (UYHK-) UNIV HONG KONG SCI & TECHNOLOGY
                                                                                 Apoptosis assay-related peptide #12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-MAY-2001; 2001US-00866447.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-MAY-2002; 2002CN-00120427.
03-JUN-2004 (first entry)
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